### CP

#### The appropriation of outer space by megaconstellations is just and ought to be managed by indigenous people, including at least the establishment of an international cultural ethics office including all indigenous nations at the forefront of decision-making regarding the appropriation of outer space by private entities.

#### The appropriation of outerspace in all other forms is unjust

#### Appropriation can be good but only if it is grounded in indigenous voices. That’s key to ensure space is maintained as a cultural heritage, rather than a final frontier, and meets their role of the ballot.

Vidaurri et al. ‘20 [Monica, Department of Physics and Astronomy, Howard University, NASA Goddard Space Flight Center; Aparna Venkatesan, Department of Physics and Astronomy, University of San Francisco; James Lowenthal, Department of Astronomy, Smith College; Parvathy Prem, Johns Hopkins University Applied Physics Laboratory;. Nature Astronomy, “The impact of satellite constellations on space as an ancestral global commons,” <https://www.nature.com/articles/s41550-020-01238-3>] brett

Most students of astrophysics learn early in their careers that we, and what we consume or use daily, have been in the cores of stars multiple times or created in the death throes of stars. When we analyse the data of galaxies from billions of light years away, we know we are looking at our cosmic past. This perspective—knowing that the Universe is within us and that we and the Sun will recycle back into future generations of stars and planets—is not as removed as some may believe from the relational view of many Indigenous cultures rooted in ‘Space and Place’, or cultural views of the night sky. Space is our past and our future; we are united in this ancestry and this ultimate fate.

We advocate for a radical shift in the policy framework of international regulatory bodies towards the view of space as an ancestral global commons that contains the heritage and future of humanity’s scientific and cultural practices. We do not use the term radical lightly; this shift requires a profound change in attitude towards what space means to all of us and our inherent beliefs about human ownership of space. Such an attitude contradicts the policies of many nations and actors in space today; for example, as recently as April 2020, the White House issued an Executive Order asserting that “Outer space is a legally and physically unique domain of human activity, and the United States does not view it as a global commons”.

We also urge federal and private space agencies and corporations to immediately establish a cultural ethics office that can offer an integrative approach for cultural intelligence, supporting scientific progress and cultural protocols from a shared ethical space rather than artificially siloed perspectives, and that the reports and findings of such offices be at the forefront of decision-making. This will begin the long overdue process of involving all the stakeholders for dark skies and near-Earth space, especially historically marginalized and Indigenous communities, as we develop new policies for space treaties and planetary protection that avoid replicating the costly mistakes of the past. The exhilaration of space exploration must be grounded in long-term thinking, centring of Indigenous voices, and sustainability.

#### Constellations are key to ensure indigenous access to broadband, ecological sustainability, and bridge the rural broadband gap.

Vidaurri et al. ‘20 [Monica, Department of Physics and Astronomy, Howard University, NASA Goddard Space Flight Center; Aparna Venkatesan, Department of Physics and Astronomy, University of San Francisco; James Lowenthal, Department of Astronomy, Smith College; Parvathy Prem, Johns Hopkins University Applied Physics Laboratory;. Nature Astronomy, “The impact of satellite constellations on space as an ancestral global commons,” <https://www.nature.com/articles/s41550-020-01238-3>] brett

Satellite constellations could greatly improve communications and ongoing monitoring of Earth phenomena ranging from weather and climate to disaster management. Such large constellations also have the potential to offer global connectivity through low-cost high-speed broadband internet. In principle, this could be the critical leap needed to bridge the very real digital divide2, especially for the world’s most minoritized populations, including Indigenous communities. This divide has been exposed as a chasm during this pandemic year, affecting many millions of students and low-income workers. Broadband internet has become essential for daily life, especially during a pandemic year when remote forms of learning, teaching, work and even health (for example, telemedicine) have become the norm. In 2019, the FCC offered US$20 billion in subsidies over ten years to address the digital divide in rural communities in the United States, which was quickly followed by a number of filings for LEOsats. LEOsat broadband may benefit rural communities more than urban areas—these ‘last mile’ connections are still challenging to complete relative to concentrated (urban) populations where ground-based cable/fibre internet infrastructure is cheaper. Large satellite constellations thus have the potential to bridge the digital chasm, but time will tell whether the promise of low-cost high-speed internet worldwide is achieved, and what the financial costs to customers are. This potential democratization of space is worth noting, even if it may not lead to fair participation in space.

#### **Only ensuring large scale access to rural broadband can enable adoption of precision agriculture.**

USDA ‘19 [US department of agriculture, April 2019, A Case For Rural Broadband, accessed 8/12/21, <https://mobroadband.org/wp-content/uploads/sites/44/2020/07/case-for-rural-broadband.pdf>] brett

Across the agricultural production cycle, farmers and ranchers can implement digital technologies as other modern businesses are doing, enhancing agriculture by driving decision-making based on integrated data, automating processes to increase operational efficiency, improving productivity with tasks driven by real-time insights, augmenting the role of management in the business of farming, and creating new markets with extended geographic reach. These patterns of digital transformation create fundamental shifts in agricultural production, developing new ways of working that make the industry more productive, attractive, and financially sustainable for farmers and ranchers. Tech companies which stand to benefit from industry transformation continue to capitalize on these shifts by developing new technologies, which according to one recent study, may help position themselves to capture a portion of an estimated $254 billion to $340 billion in global addressable digital agriculture market.13 Business Management shifts decision making from instinct to integrated data Precision Agriculture is transforming the way producers collect, organize, and rely on information to make key decisions. Traditionally, producers’ long-term experiences have created a competitive advantage: years of experiments have produced insights and instincts about the land they have farmed and the animals they have raised. But the volume of data that is possible to collect today can accelerate that learning curve, helping producers learn faster and more rapidly adapt to market shifts—particularly on new fields and with new animals—and creating more nuanced insights, enabling them to act on leading indicators. This creates a disparity between producers who can utilize high-speed Internet service and those who cannot. Examples include the ability to do the following: • create decision tools to help farmers and ranchers estimate the potential profit and economic risks associated with growing one particular crop over another • decide which fertilizer is best for current soil conditions • apply pesticides in targeted areas of the field, to control pests rather than applying pesticides over the entire field • use limited water resources more effectively • respond to findings of sensors that monitor animal health and nutrition Better choices about what, where, and when to plant, fertilize, and harvest—or breed, feed, and slaughter—can drive above-average returns by removing unrecognized inefficiencies and scaling insights. Digitization shifts supply chain management and resource allocation from generic to precise. Precision Agriculture helps make the business of farming more efficient by minimizing inputs— such as raw materials and labor—and maximizing outputs. For example, previous research has found that 40 percent of fields are over-fertilized, which not only inflates the cost of inputs but also results in 15 percent–20 percent yield loss suffered from improper fertilizer application.14 Precise application of inputs, such as fertilizer, herbicides, and pesticides, allows farmers to adjust inputs to location-based characteristics and use exact amounts needed, which saves money and increases sustainability due to more efficient resource stewardship. Improved fertilizer, soil, and water use can significantly improve water quality with less runoff and reduce climate gas emissions, which is important since agriculture accounts for 10-15 percent of worldwide emissions.15 Despite reductions in necessary inputs, Next Generation Precision Agriculture helps maintain or increase yields, leading to significant gains in efficiency14. Real-time insights also improve logistics. When growing melons, for instance, real-time data can help farmers overcome challenges in storing and shipping their products. Melons should be stored in an optimal refrigeration environment to minimize spoilage, and real-time precision sensors can reduce spoilage by alerting staff to suboptimal variations in temperature and humidity, allowing the execution of remedies before major losses occur. When refrigerated storage is full or the market price is at a peak, the “Internet of Things” can provide real-time information about where trucks are located and locating customers to market products to help make the sale. LABOR EFFICIENCY boosts productivity by automating routine processes and enabling real-time response Connected devices equip farmers with a clear picture of their operations at any moment, making it possible to prioritize tasks more effectively and triage the most pressing issues. While routine inspection and scouting has typically been a regular part of farm management and has increased farm profitability14, connected technologies can track, sense, and flag where a producer should focus their time and attention that day. Similarly, e-connectivity has allowed rural farms to access new training resources and high-skilled labor that has not been previously available. Real-time data and automation can radically improve a producer’s peace of mind and performance under time constraints, especially because of reduced physical and mental stress (no longer struggling to keep the machine on a row line between 6 and 10 hours in the field during harvest or planting). On dairy farms, for example, automated devices that milk and feed animals can also track each cow’s activity and alert producers to potential problems. Because these tasks are traditionally done by the producer and farm personnel, e-connectivity can substantially reduce the amount of time and effort necessary to run farms. This leads to dramatic increases in flexibility, enabling time and talent to be directed to more advanced tasks. Farmers can use newly found time to re-invest in more high-value tasks like long-term planning and management of the operation. This shift towards farm management opens new possibilities for the way that farms conduct business. GEOGRAPHIC ACCESS extends the reach of the supply chain and shifts marketing from standard to differentiated As explained in the previous section, as Precision Agriculture unlocks additional time and resources to explore new ways of doing business farmers are re-investing their time into identifying options to improve inputs, including better-trained labor and more effective types of inputs. New customers and markets can also be explored to increase sales volume and revenues.

#### Precision ag is key to solve ag runoff, a unique form of colonial dispossession.

Ling 17, Geoffrey Ling, a retired U.S. Army colonel, is an expert in technology development and commercial transition. He is a professor of neurology at Johns Hopkins University and the Uniformed Services University of the Health Sciences and a partner of Ling and Associates. Scientific American, June 26, 2017. “Precision Farming Increases Crop Yields” <https://www.scientificamerican.com/article/precision-farming/> brett

As the world’s population grows, farmers will need to produce more and more food. Yet arable acreage cannot keep pace, and the looming food security threat could easily devolve into regional or even global instability. To adapt, large farms are increasingly exploiting precision farming to increase yields, reduce waste, and mitigate the economic and security risks that inevitably accompany agricultural uncertainty.

Traditional farming relies on managing entire fields—making decisions related to planting, harvesting, irrigating, and applying pesticides and fertilizer—based on regional conditions and historical data. Precision farming, by contrast, combines sensors, robots, GPS, mapping tools and data-analytics software to customize the care that plants receive without increasing labor. Stationary or robot-mounted sensors and camera-equipped drones wirelessly send images and data on individual plants—say, information about stem size, leaf shape and the moisture of the soil around a plant—to a computer, which looks for signs of health and stress. Farmers receive the feedback in real time and then deliver water, pesticide or fertilizer in calibrated doses to only the areas that need it. The technology can also help farmers decide when to plant and harvest crops.

As a result, precision farming can improve time management, reduce water and chemical use, and produce healthier crops and higher yields—all of which benefit farmers’ bottom lines and conserve resources while reducing chemical runoff.

Many start-ups are developing new software, sensors, aerial-based data and other tools for precision farming, as are large companies such as Monsanto, John Deere, Bayer, Dow and DuPont. The U.S. Department of Agriculture, NASA and the National Oceanic and Atmospheric Administration all support precision farming, and many colleges now offer course work on the topic.

In a related development, seed producers are applying technology to improve plant “phenotyping.” By following individual plants over time and analyzing which ones flourish in different conditions, companies can correlate the plants’ response to their environments with their genomics. That information, in turn, allows the companies to produce seed varieties that will thrive in specific soil and weather conditions. Advanced phenotyping may also help to generate crops with enhanced nutrition.

Growers are not universally embracing precision agriculture for various reasons. The up-front equipment costs—especially the expense of scaling the technology to large row-crop production systems—pose a barrier. Lack of broadband can be an obstacle in some places, although the USDA is trying to ameliorate that problem. Seasoned producers who are less computer-literate may be wary of the technology. And large systems will also be beyond the reach of many small farming operations in developing nations. But less expensive, simpler systems could potentially be applied. Salah Sukkarieh of the University of Sydney, for instance, has demonstrated a streamlined, low-cost monitoring system in Indonesia that relies on solar power and cell phones. For others, though, cost savings down the road may offset the financial concerns. And however reticent some veteran farmers may be to adopt new technology, the next generation of tech-savvy farmers are likely to warm to the approach.

#### Gulf hypoxia is growing because of ag runoff---it’ll collapse whole oceans---extinction

Dr. Ian Hendy 17, PhD in Trophic Marine Biology, Research and Communication Officer and Senior Scientific Researcher in Marine Ecology at the University of Portsmouth, Institute of Marine Sciences Laboratories, Gulf of Mexico 'Dead Zone' Is Already A Disaster – But It Could Get Worse, Phys Org, 8-14, https://phys.org/news/2017-08-gulf-mexico-dead-zone-disaster.html

Each summer, a large part of the Gulf of Mexico "dies". This year, the Gulf's "dead zone" is the largest on record, stretching from the mouth of the Mississippi, along the coast of Louisiana to waters off Texas, hundreds of miles away. Around 8,776 square miles of ocean, an area the size of New Jersey or Wales, is almost lifeless.

John Muir, the famed naturalist and early conservation campaigner, once said that: "When we try to pick out anything by itself, we find it hitched to everything else in the Universe." His point was that everything in nature is connected, and that no part of our ecosystem exists entirely independently from any other.

It is perhaps no surprise then that ultimate cause of the Gulf of Mexico's dead zone can be found many miles inland. Fertilisers used by farmers then wash into the Mississippi River and eventually into the sea, where nutrients such as nitrogen and phosphorus stimulate an explosion in microscopic algae, creating huge "algal blooms". The algae then die and sink to the bottom, where they decompose. But the same bacteria which decompose the algae also use the sea's oxygen during the process, leaving an "anoxic" ocean.

Fish and other mobile sea creatures are able to escape the suffocating dead zone. Less lucky however are the sponges, corals, sea squirts and other animals who live their lives fixed in one place on the sea bed. Low oxygen levels place them under great stress and we have seen huge mortalities. Such losses will of course ripple up the food web, creating a negative chain reaction of increasing mortality rates in larger and larger animals.

The "dead zone" has grown this year due to increased rainfall in America's Midwest washing ever greater amounts of nutrients into the Mississippi, which ultimately end up in the Gulf. Not only is this a huge conservation issue – the Gulf contains key nursery habitats such as mangrove forests, sea grass beds and coral reefs that benefit adjacent fisheries – but it also has huge consequences for the local fishing economy, particularly the shrimp industry.

Steps are under way to slow down the ecological disaster. Some farmers in the Mississippi basin are using large grassy zones along waterways in order to soak up the agricultural fertilisers and filter out many of the nutrients before they make their way down the Mississippi to pollute the Gulf. However, it remains to be seen whether such measures are effective – and US farmers certainly need to greatly reduce the nitrogen and phosphates they use.

In the century since Muir's death, things have sped up. A larger population demands more food which means more deforestation, more farmland and more fertiliser. The increase demand placed on our land is ultimately affecting the marine environment.

These losses are unsustainable. The marine environment is integral for all life on earth, from an ecological and economic point of view. If we keep losing ecosystem services such as coastal nursery habitats and spawning grounds at this current rate, it will not just be an area the size of a state that is a dead zone, but the whole Gulf, or even whole oceans.

#### Normal means says mega-constellations of satellites are a form of appropriation of outer space.

Johnson 20 [Chris, Space Law Advisor for Secure World Foundation, 9 years of professional experience in international space law and policy. J.D. from New York Law School; 2020; “The Legal Status of MegaLEO Constellations and Concerns About Appropriation of Large Swaths of Earth Orbit,” <https://swfound.org/media/206951/johnson2020_referenceworkentry_thelegalstatusofmegaleoconstel.pdf>] brett \*Yes this author is against constellations but they only exist to prove the link.

Excludes Others

The constellations above, because they seem to so overwhelmingly possess particular orbits through the use of multiple satellites to occupy orbital planes, and in a manner that precludes other actors from using those exact planes, constitute an appropriation of those orbits. While the access to outer space is nonrivalrous – in the sense that anyone with the technological capacity to launch space objects can therefore explore space – it is also true that orbits closer to Earth are unique, and when any actor utilizes that orbit to such an extent to these proposed constellations will, it means that other actors simply cannot go there.

To allow SpaceX, for example, to so overwhelmingly occupy a number of altitudes with so many of their spacecraft, essentially means that SpaceX will henceforth be the sole owner and user of that orbit (at least until their satellites are removed). No other actors can realistically expect to operate there until that time. No other operator would dare run the risk of possible collision with so many other spacecraft in that orbit. Consequently, the sole occupant will be SpaceX, and if “possession is 9/10th of the law,” then SpaceX appears to be the owner of that orbit.

Done Without Coordination

Additionally, SpaceX and other operators of megaconstellations are doing so without any real international conversation or agreement, which is especially egregious and transgressive of the norms of outer space. Compared to the regime for GSO, as administered by the ITU and national frequency administrators, Low Earth Orbit is essentially ungoverned, and SpaceX and others are attempting to seize this lack of authority to claim entire portions of LEO for itself; and before any international agreement, consensus, or even discussion is had. They are operating on a purely “first come, first served” basis that smacks of unilateralism, if not colonialism.

Governments Are Ultimately Implicated

As we know, under international space law, what a nongovernmental entity does, a State is responsible for. Article VI of the Outer Space Treaty requires that at least one State authorize and supervise its nongovernmental entities and assure their continuing compliance with international law. As such, the prohibition on nonappropriation imposed upon States under Article II of the Outer Space Treaty applies equally to nongovernmental private entities such as SpaceX.

Nevertheless, through the launching and bringing into use of the Starlink constellation, SpaceX will be the sole occupant, and thereby, possessor, both fact and in law, of 550 km, 1100 km, 1130 km, 1275 km, and 1325 km above our planet (or whatever orbits they finally come to occupy). The same is true for the other operators of these large constellations which will be solely occupying entire orbits.

Long-Term Occupation Constitutes Appropriation

These altitudes are additionally significant, as nonfunctional spacecraft in orbits lower than around 500 km will re-enter the Earth’s atmosphere in months or a few years, but the altitudes selected for the Starlink constellation, while technologically desirable for their purposes, also mean that any spacecraft which are not de-orbited from these regions may be there for decades, or possibly even hundreds of years. By comparison, the granting of rights for orbital slots at GSO is in 15-year increments, a length of time much less than what the altitudes of the megaconstellations threaten. Such long spans of time at these altitudes by these megaconstellations further bolster the contention that this occupation rises to the level of appropriation of these orbits.

Prevents Others from Using Space

Article I of the Outer Space Treaty establishes that the exploration and use of outer space is “the province of all mankind.” It further requires that this exploration and use shall be by all States “without discrimination of any kind, on a basis of equality and in accordance with international law...” However, when one private corporation so overwhelmingly possesses entire portions of outer space, their use is discriminatory to other potential users and interferes with their freedom to access, explore, and use outer space. So long as these actors are so dominantly possessing and occupying those orbits, their actions exclude others from using them. What other operator would dare use orbits where there are already hundreds of satellites operating as part of a constellation? It would be an extremely unwise and risky decision to try to share these orbits with a mega constellation, so they will likely choose other altitudes and orbits. This massive occupation of particular orbits effectively defeats others from enjoying the use of outer space. While a State can issue permits for one of its corporations allowing them to launch and operate satellites to this extent, that does not automatically mean that their activities in outer space, an area beyond national sovereignty, are therefore in perfect accordance with the strictures of international law. Indeed, national permissions offer no such guarantee.

No Due Regard for Others

That these megaconstellations violate the prohibition on appropriation in Article II is additionally supported by Article IX of the Outer Space Treaty. Article IX requires that in the exploration and use of outer space, States “shall be guided by the principle of cooperation and mutual assistance and shall conduct all their activities in outer space... with due regard to the corresponding interests of other States...” There is hardly any way to view this deployment of megaconstellations as showing any type of due regard to the corresponding interests of others. This lack of regard further supports the notion of their unilateral transgressive violations of the purposes of space law norms.

Harmful Contamination

The impacts of the spacecraft on the pressing issue of space debris need not be gone into detail here. Suffice it to say, megaconstellations threaten mega-debris. The failure rate of these comparatively cheap satellites should give pause, because if 5% of a constellation of 100 satellites fails, this is 5 guaranteed new pieces of debris intentionally introduced to the fragile space domain. Article IX of the Outer Space Treaty warns of harmful contamination of the space environment and requires States to take appropriate measures to prevent this harmful contamination. A responsible government could not, in all seriousness, permit the intentional release of such amounts of space debris, especially in the already fraught orbits that many megaconstellations are headed towards. While the threat of space debris is not directly relevant to the accusation of appropriation of outer space, it goes towards the argument that these actors are conducting activities in a manner lacking in regard to others, and in fact, amounts to excluding others from using the space domain. By excluding others, this has the effect of taking orbits for themselves, which IS occupation.

If This Isn’t Appropriation, Then What Is?

Arguing in the alternative, if these megaconstellations — in their dominant occupation of entire orbits in orbital planes with numerous satellites — could be considered (merely for the sake of argument) to not be appropriation, we must therefore ask: what would be appropriation? What use of void space, including orbits of the Earth, would constitute actual appropriation? What further, additional fact of these uses of space, if added to the scenario, would cause that constellation to cross over the line into clearly prohibited appropriation? Perhaps the exact same scenario, but supplemented with an actual, formal claim of sovereignty, issued by a government, is the only element which could be added to megaconstellations which would then cross the threshold into appropriation. However, a formal claim of sovereignty would be merely an act occurring on Earth and would not change any actual facts in the space domain. Consequently, the lack of a formal claim of sovereignty should not be the deciding criteria in arriving at the conclusion that megaconstellations constitute appropriation of orbits.

Conclusion

In conclusion, these megaconstellations effectively occupy entire orbital regions with their vast fleet of spacecraft and in so doing effectively preclude other actors from sharing those domains. They have done so, or are attempting to do so, without any international consensus or discussion, which is most egregious for a domain outside of State sovereignty and which no State can own. Governments will ultimately be responsible for this appropriation, and both are prohibited from appropriating space. In distinction to GSO, their permission to go there means that they could occupy these regions for incredibly long periods — which again shows their appropriation. These constellations significantly prevent others from using those regions, which therefore interferes with others’ right to explore and use space. And ultimately, this reckless ambition shows absolutely no due regard (as per Article IX) for the corresponding rights of others. As such, these megaconstellations constitute an impermissible appropriation of particular regions of outer space, regardless of any formal, official claim of such by a responsible, authorizing government.

### T

#### Interp: The AFF must defend policy action in a plan text in the 1AC.

#### "Resolved:" the appropriation of outer space by private entities is "unjust" entails policy action:

#### 1---Resolved.

Parcher 1 [Jeff; former debate coach at Georgetown; Feb 26, 2001; <https://web.archive.org/web/20020929065555/http://www.ndtceda.com/archives/200102/0790.html>] brett

(1) Pardon me if I turn to a source besides Bill. American Heritage Dictionary: Resolve: 1. To make a firm decision about. 2. To decide or express by formal vote. 3. To separate something into constiutent parts See Syns at \*analyze\* (emphasis in orginal) 4. Find a solution to. See Syns at \*Solve\* (emphasis in original) 5. To dispel: resolve a doubt. - n 1. Frimness of purpose; resolution. 2. A determination or decision.

(2) The very nature of the word "resolution" makes it a question. American Heritage: A course of action determined or decided on. A formal statemnt of a deciion, as by a legislature.

(3) The resolution is obviously a question. Any other conclusion is utterly inconcievable. Why? Context. The debate community empowers a topic committee to write a topic for ALTERNATE side debating. The committee is not a random group of people coming together to "reserve" themselves about some issue. There is context - they are empowered by a community to do something. In their deliberations, the topic community attempts to craft a resolution which can be ANSWERED in either direction. They focus on issues like ground and fairness because they know the resolution will serve as the basis for debate which will be resolved by determining the policy desireablility of that resolution. That's not only what they do, but it's what we REQUIRE them to do. We don't just send the topic committtee somewhere to adopt their own group resolution. It's not the end point of a resolution adopted by a body - it's the prelimanary wording of a resolution sent to others to be answered or decided upon.

(4) Further context: the word resolved is used to emphasis the fact that it's policy debate. Resolved comes from the adoption of resolutions by legislative bodies. A resolution is either adopted or it is not. It's a question before a legislative body. Should this statement be adopted or not.

#### 2---Unjust.

Black’s Law [The Law Dictionary Featuring Black's Law Dictionary Free Online Legal Dictionary 2nd Ed. No Date. <https://thelawdictionary.org/unjust/>] brett

What is UNJUST?

Contrary to right and justice, or to the enjoyment of his rights by another, or to the standards of conduct furnished by the laws.

#### Violation: There’s no plan, they defend the res as a general rule.

#### Prefer:

#### 1---Ground---a defense of the res, we lose all the pre-round prep we did around the resolution, killing neg ground.

#### 2---Vagueness---debates inevitably involve the AFF defending something, but only our interp lets them to clearly define that from the start. Their model leads to late-breaking debates that destroy ground, for example we won’t know if asteroid mining or space exploration are offense until the 1AR, which skews neg prep.

#### 3---Topic ed--- specific policies let us go deep into the topic, uniquely important given the evolving character of space law. outweighs bc we only have 2 month topics, and phil ed is solved by free textbooks.

#### TVA- This aff with a global commons advocacy- allows legit the same aff, and you still center indigenous education

#### Fairness is a voter since the winner can’t be decided if the round was skewed and education too since it’s the point of the activity

#### Drop the debater – key to preventing future abuse since if they get dropped for unfair arguments they’re disincentivized from reading them

#### Prefer Competing interps – reasonability collapses since it’s just two brightlines justified under an offense defense paradigm, which is better because it creates a clear method for deciding the winner of the theory debate

#### No RVIs- a) illogical, you don’t win for being fair b) having the 2ar means you can sit on an RVI for 3 minutes to moot all NC offense which dissuades people from pointing out abuse.

## Case

#### Top level, don’t let them repurpose a critique of university spaces into a debate bad argument, they say universities are built on stolen land, not debate is bad. Turn the first paperson card too, it says universities can be repurposed for resistance which proves this debate is good because of the subject material.

#### The Role of the ballot is to vote for whoever does the better debating – any alternative framework must explain why we switch sides, why there has to be a winner and a loser, and why there are structural rules. The frame for evaluating offense is that debate is a game and we’re all here to win – that means procedural questions come first. Anything else is arbitrary and kills decisionmaking by skewing heavily towards aff impacts.

#### On carlson – indigenous scholarship is not always good, everyone gets things wrong sometimes, which means not sidelining anyone is better.

#### The standard is to maximize expected well-being – this is what determines your ballot, so it competes with their role of the ballot

#### 1] Extinction first and matters under their fw – it’s a prior question to the aff’s organization strategy.

#### Anticipating extinction breeds empathy and entangled care. Distancing ourselves from considering extinction reifies detached elitism.

Offord, 17—Faculty of Humanities, School of Humanities Research and Graduate Studies, Bentley Campus (Baden, “BEYOND OUR NUCLEAR ENTANGLEMENT,” Angelaki, 22:3, 17-25, dml) [ableist language modifications denoted by brackets]

You are steered towards overwhelming and inexplicable pain when you consider the nuclear entanglement that the species Homo sapiens finds itself in. This is because the fact of living in the nuclear age presents an existential, aesthetic, ethical and psychological challenge that defines human consciousness. Although an immanent threat and ever-present danger to the very existence of the human species, living with the possibility of nuclear war has infiltrated the matrix of modernity so profoundly as to paralyse [shut down] our mind-set to respond adequately. We have chosen to ignore the facts at the heart of the nuclear program with its dangerous algorithm; we have chosen to live with the capacity and possibility of a collective, pervasive and even planetary-scale suicide; and the techno-industrial-national powers that claim there is “no immediate danger” ad infinitum.8

This has led to one of the key logics of modernity's insanity. As Harari writes: “Nuclear weapons have turned war between superpowers into a mad act of collective suicide, and therefore forced the most powerful nations on earth to find alternative and peaceful ways to resolve conflicts.”9 This is the nuclear algorithm at work, a methodology of madness. In revisiting Jacques Derrida in “No Apocalypse, Not Now (Full Speed Ahead, Seven Missiles, Seven Missives),”10 who described nuclear war as a “non-event,” it is clear that the pathology of the “non-event” remains as active as ever even in the time of Donald Trump and Kim Jong-un with their stichomythic nuclear posturing.

The question of our times is whether we have an equal or more compelling capacity and willingness to end this impoverished but ever-present logic of pain and uncertainty. How not simply to bring about disarmament, but to go beyond this politically charged, as well as mythological and psychological nuclear algorithm? How to find love amidst the nuclear entanglement; the antidote to this entanglement? Is it possible to end the pathology of power that exists with nuclear capacity? Sadly, the last lines of Nitin Sawhney's “Broken Skin” underscore this entanglement:

Just 5 miles from India's nuclear test site

Children play in the shade of the village water tank

Here in the Rajasthan desert people say

They're proud their country showed their nuclear capability.11

As an activist scholar working in the fields of human rights and cultural studies, responding to the nuclear algorithm is an imperative. Your politics, ethics and scholarship are indivisible in this cause. An acute sense of care for the world, informed by pacifist and non-violent, de-colonialist approaches to knowledge and practice, pervades your concern. You are aware that there are other ways of knowing than those you are familiar and credentialed with. You are aware that you are complicit in the prisons that you choose to live inside,12 and that there is no such thing as an innocent bystander. You use your scholarship to shake up the world from its paralysis, abjection and amnesia; to unsettle the epistemic and structural violence that is ubiquitous to neoliberalism and its machinery; to create dialogic and learning spaces for the work of critical human rights and critical justice to take place. All this, and to enable an ethics of intervention through understanding what is at the very heart of the critical human rights impulse, creating a “dialogue for being, because I am not without the other.”13

Furthermore, as a critical human rights advocate living in a nuclear armed world, your challenge is to reconceptualise the human community as Ashis Nandy has argued, to see how we can learn to co-exist with others in conviviality and also learn to co-survive with the non-human, even to flourish. A dialogue for being requires a leap into a human rights frame that includes a deep ecological dimension, where the planet itself is inherently involved as a participant in its future. This requires scholarship that “thinks like a mountain.”14 A critical human rights approach understands that it cannot be simply human-centric. It requires a nuanced and arresting clarity to present perspectives on co-existence and co-survival that are from human and non-human viewpoints.15

Ultimately, you realise that your struggle is not confined to declarations, treaties, legislation, and law, though they have their role. It must go further to produce “creative intellectual exchange that might release new ethical energies for mutually assured survival.”16 Taking an anti-nuclear stance and enabling a post-nuclear activism demands a revolution within the field of human rights work. Recognising the entanglement of nuclearism with the Anthropocene, for one thing, requires a profound shift in focus from the human-centric to a more-than-human co-survival. It also requires a fundamental shift in understanding our human culture, in which the very epistemic and rational acts of sundering from co-survival with the planet and environment takes place. In the end, you realise, as Raimon Panikkar has articulated, “it is not realistic to toil for peace if we do not proceed to a disarmament of the bellicose culture in which we live.”17 Or, as Geshe Lhakdor suggests, there must be “inner disarmament for external disarmament.”18 In this sense, it is within the cultural arena, our human society, where the entanglement of subjective meaning making, nature and politics occurs, that we need to disarm.

It is 1982, and you are reading Jonathan Schell's The Fate of the Earth on a Sydney bus. Sleeping has not been easy over the past few nights as you reluctantly but compulsively read about the consequences of nuclear war. For some critics, Schell's account is high polemic, but for you it is more like Rabindranath Tagore: it expresses the suffering we make for ourselves. What you find noteworthy is that although Schell's scenario of widespread destruction of the planet through nuclear weaponry, of immeasurable harm to the bio-sphere through radiation, is powerfully laid out, the horror and scale of nuclear obliteration also seems surreal and far away as the bus makes its way through the suburban streets.

A few years later, you read a statement from an interview with Paul Tibbets, the pilot of “Enola Gay,” the plane that bombed Hiroshima. He says, “The morality of dropping that bomb was not my business.”19 This abstraction from moral responsibility – the denial of the implications on human life and the consequences of engagement through the machinery of war – together with the sweeping amnesia that came afterwards from thinking about the bombing of Hiroshima, are what make you become an environmental and human rights activist. You realise that what makes the nuclear algorithm work involves a politically engineered and deeply embedded insecurity-based recipe to elide the nuclear threat from everyday life. The spectre of nuclear obliteration, like the idea of human rights, can appear abstract and distant, not our everyday business. You realise that within this recipe is the creation of a moral tyranny of distance, an abnegation of myself with the other. One of modernity's greatest and earliest achievements was the mediation of the self with the world. How this became a project assisted and shaped through the military-industrial-technological-capitalist complex is fraught and hard to untangle. But as a critical human rights scholar you have come to see through that complex, and you put energies into challenging that tyranny of distance, to activate a politics, ethics and scholarship that recognises the other as integral to yourself. Ultimately, even, to see that the other is also within.20

#### Frame the 1AC through solvency, not impacts – any attempt to filter offense through the RotB or the speech act of the aff is an arbitrary goalpost that only serves to insulate it from criticism and nuanced testing – forcing us to negate the efficacy of personal strategies is at best impossible and at worst violent– no warrant for how the aff spills up to impact structures of politics writ large or out of debate means you vote neg on presumption.

#### No evidence for the power of the ballot – debate specific – negate on presumption.

Ritter 13 [Michael, JD UTexas Law, B.A. cum laude Trinity University. September 2013. “Overcoming the Fiction of ‘Social Change Through Debate’: What’s to Learn From 2Pac’s Changes?” https://docs.wixstatic.com/ugd/9896ec\_8b2b993ec42440ecaab1b07645385db5.pdf]

Up to this point, this article has shown how each of the essential components of “competitive interscholastic debate” makes it very different from any other kind of debate. But one thing that is persuasive in any kind of debate is some sort of properly conducted study (or even a mere survey) that provides empirical proof or even substantial anecdotal support. To date, none of the many academics who coach or participate in the debate community have published a study or survey to support the social change fiction. (Perhaps they have tried, and discovered they were just wrong.) But until such an empirical study of competitive interscholastic debate is conducted, students, judges, and coaches should not take it for granted.

#### On Ballantyne – maybe it recenters the relationship between the land and education for the people who take part in it, but that’s not a large enough group to make any material change to settler colonial structures, e.g. what about policymakers that exist outside of academia? Also answers Rifkin and Henderson, not nearly big enough scope to solve anything.

### A2 Ontology

#### Not applicable---our CP is about explicitly putting indigenous people in charge of how private appropriation occurs, which ensures indigenous knowledge is valued and isn’t a “ruse of consent”.

#### Legal reform is possible -- eschewing contingent harm reduction reinforces the violence they critique.

Multiple examples of political progress for native sdisprove their ontology args

A] elections of native American women to congress

B] anything else denies the resilience of nthe native community

C] violence against women act for stopping nonnatives who assaulted natives

D] court rulings

Blackhawk 19 [Ned Blackhawk (Western Shoshone), a professor of history and American studies at Yale University, where he coordinates the Yale Group for the Study of Native America, "A New History of Native Americans Responds to ‘Bury My Heart at Wounded Knee’," NYT, 1-20-2019, https://www.nytimes.com/2019/01/20/books/review/david-treuer-heartbeat-wounded-knee.html]

Over the past 12 months, Native American politicians, artists and academics have made uncommon gains. Indeed, Native American women helped to make 2018 the Year of the Woman. In November, New Mexican and Kansan voters elected Debra Haaland (Laguna Pueblo) and Sharice Davids (Ho-Chunk) to Congress, while voters in Minnesota elected Peggy Flanagan (Ojibwe) their lieutenant governor. In October, the sociologist Rebecca Sandefur (Chickasaw) and the poet Natalie Diaz (Mojave) won MacArthur Foundation Awards, while throughout the spring and summer, the playwrights Mary Kathryn Nagle (Cherokee), Larissa FastHorse (Lakota) and DeLanna Studi (Cherokee) had historic openings at Arena Stage in Washington, D.C., Artists Repertory Theater in Portland, Ore., and Portland Center Stage, respectively. From the cover of American Theater magazine in April to CNN on election night, the work of these eight dynamic Native women garnered national acclaim.

Such achievements represent more than added texture to the mosaic of modern America. They underscore the rising power of American Indians over the past two generations. During an era known as “Self-Determination,” Indian tribes and their citizens have changed not only their particular nations but also the larger nation around them. Though still poorly understood, this era emerged from urban and reservation activism in the 1960s and ’70s, when community leaders, students and veterans, among others, challenged onerous policies that had aimed to assimilate tribal communities. The Self-Determination Era has now grown in prodigious ways and yielded countless examples of achievement across Native North America, including the elections of Haaland and Davids as the first American Indian women ever elected to Congress.

“The Heartbeat of Wounded Knee,” by David Treuer (Ojibwe), examines these recent generations of American Indian history. Through memoir, interviews and extensive reading, Treuer counters the familiar narratives of invisibility that have so readily frozen America’s indigenous peoples. Interweaving stories from family members, the voices of policymakers and assessments of contemporary youth culture, the book introduces alternative visions of American history. The result is an informed, moving and kaleidoscopic portrait of “Indian survival, resilience, adaptability, pride and place in modern life.” Rarely has a single volume in Native American history attempted such comprehensiveness.

A noted novelist, Treuer takes his title from the celebrated work “Bury My Heart at Wounded Knee,” by Dee Brown. Published in 1970 at the height of the activist movements, Brown’s reassessment of the 19th-century wars between Indians and the federal government resonated with a generation of Americans. Achieving its narrative crescendo with the Wounded Knee Massacre of 1890, when the Seventh Cavalry was said to have exacted revenge for Custer’s defeat at the Little Big Horn, Brown’s text fueled growing outrage against injustices perpetuated by the federal government. It was a history that reached beyond its subject and helped to define an era. It has remained in print ever since.

To many, Brown’s history inverted accounts of the American West. It substituted Euro-American quests for frontier freedom with those of American Indians “who already had it.” The problem was that in place of Indian vilification Brown offered victimization. Despite their nobility and fortitude, he suggested, Indians were still defeated. In his telling, Native history became a slow, inexorable decline toward disappearance. Twentieth-century “poverty, hopelessness and squalor,” he wrote, were the outcomes for peoples who had lost and who remained lost.

White Americans have long defined the past through narratives of frontier freedoms. Recently, however, historians have moved away from such self-justifying accounts, and a growing field has made the experiences of indigenous displacement, survival and resurgence a new pathway for understanding the nation’s history. Celebratory accounts of European settlement and expansion have increasingly passed into an antiquarian realm, succeeded by studies of settler colonialism that approach the past more comparatively as well as more cautiously.

Treuer adeptly synthesizes these recent studies and fashions them with personal, familial and biographic vignettes. He works hard to connect the past with those who live with its ongoing legacies. An extended account of his cousin’s history of reservation cage-fighting on their home at Leech Lake, Minn., for example, effectively introduces Part 3 of the book, “Fighting Life: 1914-1945,” which chronicles the astonishing rates of Indian service in World Wars I and II.

Here, Treuer recalls heroes less familiar than the Indians of traditional histories. Joseph Oklahombi of the Choctaw Nation received both the American Silver Star and the French Croix de Guerre during World War I for capturing a German machine-gun nest and “killing 79 before taking another 171 captive.” He was, however, never “recommended for the Medal of Honor” — which, as Treuer notes cuttingly, had been awarded to “20 of the troopers who opened fire on unarmed Lakota at Wounded Knee.” Even before the United States joined the war in 1917, some Indian men had migrated into Canada and joined other Native Americans, like Francis Pegahmagabow (Ojibwe) from Wasauksing First Nation, whose service at Ypres, the Somme and Passchendaele included “378 confirmed kills and the capture of 300 Germans.” These achievements made him “the most decorated soldier (and certainly the most effective) in the Canadian Army.”

The portraits of such early-20th-century individuals follow Treuer’s survey of colonial and 19th-century history, where regional overviews of Native North America are combined with the complex, multi-imperial histories that forged colonial America and the young Republic. Readers will find familiar analyses of the unrelenting, violent cupidity of European explorers and, at times, subtle suggestions about the equally relentless capacity of Indian communities adapting within the maelstrom of early America.

Through the book’s second half, recounting developments since World War II, Treuer’s counternarrative to Brown takes its fullest form. In particular, his detailed assessments of what he calls “becoming Indian” highlight the resiliency and dynamism of contemporary tribal communities. Interrelated processes rooted in family and culture, he suggests, undergird the continuing sovereignty of modern Indian tribes. Such processes, he shows, are in fact ubiquitous. They are also deeply personal. For instance, as he concludes about his mother’s adjuration to maintain his family’s methods of ricing, hunting, sugaring and berry harvesting, “sovereignty isn’t only a legal attitude or a political reality.” Sovereignty is lived. It is inhabited, performed and enacted, often on a daily basis. It can also become as empowering as it is cherished: “To believe in sovereignty,” Treuer writes, “to move through the world imbued with the dignity of that reality, is to resolve one of the major contradictions of modern Indian life: It is to find a way to be Indian and modern simultaneously.” As the political theorist Glen Coulthard (Yellowknives Dene) similarly suggests, culturally specific, place-based relationships root Native peoples not only with their homelands but also with ethical obligations and a moral worldview that he terms “grounded normativity.”

Family, relationships and place-based sovereignty are a major feature of contemporary Native America, whose collective “heartbeat” has grown stronger throughout the Self-Determination Era. The legacies of conquest, however, continue, and Indian communities still endure beleaguering disparities. They also continue to confront legal and political challenges, as well as threats of violence. Treuer writes that in recent years the United States Supreme Court has been “shaped by the questions of community and obligation between the government and several Indian nations.” But he might have noted as well that since 1978 the court has fashioned a “common law colonialism” that chips away at the ability of tribal courts to enforce criminal and civil laws against non-Indians, while environmental degradation and the extraction of resources plague Indian communities disproportionately.

Increasingly, colonial battles have moved from Wounded Knee to Congress, where Native communities have, at times, been victorious.

“In 2013, the Violence Against Women Act (VAWA),” Treuer writes, “was reauthorized and significantly revised. Among the new provisions was the empowerment of tribal courts to charge and prosecute non-Natives who raped or assaulted Native women on Native land.”

Such statutory reforms offer tribal communities opportunities to reform misguided court rulings, and political advocacy has become an effective mechanism for protecting community members, enforcing environmental regulations and further institutionalizing sovereign authority within tribal communities. Indeed, working with Congress has become a common feature of contemporary American Indian politics. Treuer speaks of “a slew of laws” passed in the 1990s and 2000s that have empowered Native peoples.

Threats to tribal sovereignty, however, loom. Shortly after the VAWA reauthorization, Dollar General Corporation took a case to the Supreme Court contesting tribal authority over civil affairs. In 2016 it nearly won with a court that divided 4 to 4. Legal challenges like this one have become among the 21st century’s primary landscapes of confrontation.

Ultimately, Treuer’s powerful book suggests the need for soul-searching about the meanings of American history and the stories we tell ourselves about this nation’s past. There is an urgency to fashion new national narratives. Treuer’s suggestion, for example, that Indian peoples have been infected by colonialism with a disease “of powerlessness … more potent than most people imagine” could be extended to include the subordination experienced by other gendered, racialized and historically disempowered communities. This disease also has the potential to spread even further, because it cannot simply be up to America’s indigenous people to ward it off. As Treuer explains, “This disease is the story told about us and the one we so often tell about ourselves.”

#### Sweeping theories of indigeneity totalize and disempower resistance.

Rosenow, 19—Senior Lecturer in International Relations at Oxford Brookes University (Doerthe, “Decolonising the Decolonisers? Of Ontological Encounters in the GMO Controversy and Beyond,” Global Society, 33:1, 82-99, dml)

Despite the force and importance of this argument, I have felt slightly uneasy when reading those conclusions. Focusing on radical ontological difference can easily lead to a romanticised reification of other peoples’ difference that is in danger of ignoring actual political struggles and demands on the ground. As Cusicanqui argues, those struggles might very well emerge out of an “indigenous modernity”, rather than an insistence on the right to one’s difference. By this she means that some Indigenous people aim to formulate a hegemonic vision for how to structure a society that is valid for everyone (Indigenous AND non-Indigenous): they work for a society that is in their “image and likeness”, and to use modern notions such as “citizenship” for this purpose, rather than rejecting the latter as irreconcilable with one’s own world.39 By contrast, some North American Indigenous intellectuals call for an Indigenous “resurgence” that, rather than seeking hegemony, altogether turns away from seeking recognition by wider (colonial) “society”. As Leanne Betasamosake Simpson points out, in such “resurgent mobilization … there is virtually no room for white people”. 40

But my unease was also emerging from something else, which is what I want to focus on in this article: the problem that encounters and conflicts are yet again made sense of within overarching structures of knowledge production rather than cultivation (despite the intention to do otherwise). As de la Cadena herself makes clear in the quotation above, what is encountered as “different” is inevitably described “in forms that I could understand” (my emphasis)—even whilst simultaneously recognising that one’s description does not capture what the encountered practices actually do. Sense-making, for de la Cadena, takes place at what could be called two levels: At a first level, there is the inevitable process of making sense of an alienating affective experience on the spot, from within one’s own framework of understanding the world. At a second level, then, de la Cadena attempts to make legible her grappling and not-understanding in the context of a book for an academically literate and interested audience—in other words, in the writing-up of her ethnographic research.

In Rojas’ and Blaney and Tickner’s case, given that their articles do not aim to make an empirical contribution, sense-making takes place at what could be called a third level: what is drawn upon is the understanding that emerged out of the ethnographic work of others, which is brought into conversation with various bodies of theoretical work in order to make a conceptual contribution. This takes place via the coining of central concepts and the outlining of all-encompassing frameworks that are meant to help us understand the analytical, normative and political consequences of their argument for scholarly work more broadly. The ontological encounters of others are used to delineate the merits of ontological encounters in general, in IR and beyond. This objective leads to a particular way of developing and structuring a generic argument that makes it difficult to move beyond sense-making frameworks that are necessarily geared towards settling all those unsettling and disconcerting experiences that were the focus of the articles in the first place.

This is also the problem of some central decolonial work. Drawing on Edouard Glissant, Mignolo, for example, critiques the “requirement of transparency” that forms the basis for understanding in Western social science scholarship. He argues for the “right to opacity” of those located on the other side of the colonial difference.41 But this claim sits at odds with his simultaneous desire to write a new, all-encompassing history of “the modern/colonial world system”. 42 And like in Rojas’ and Blaney and Tickner’s articles, terms such as “pluriversality”43 or “diversality”44 are coined in order to have a (one!) concept for a similarly all-encompassing solution to domination. While de la Cadena is critical of her own “anxiety to understand coherently (with which I meant clearly and without contradiction”), and while she points out how this “was often out of place”, 45 Mignolo as well as Rojas and Blaney and Tickner seek to place such anxiety in yet another coherent framework that holds everything together.

The question arises whether this can be any different in scholarly work that is not directly based on ethnographic research itself, and which can therefore not lay claim to a direct experience of ontological controversies. This has become an important question for my own (likewise third-level) work on anti-GMO activism. My work to date has primarily aimed at making a conceptual contribution, and has relied on a conversation between the ethnographic research of others and various bodies of conceptual work, including decolonial and “ontological turn” literature.46

But as I have already indicated in relation to de la Cadena’s work, when writing up their research for academic purposes, even those who have directly experienced ontological encounters find it hard to resist the tendency to conclude their work with stringent, overarching, coherent conclusions that the Westerneducated reader can grasp and “take home”. In the next section, I will draw on two anthropological ethnographic texts that are significant for research on the GMO controversy to show how this works. The two texts that will be analysed in the next section engage with the GMO controversy in Paraguay and Mexico respectively, and they have stood out for me in the way they manage to convey a sense of unease and grappling with ontological encounters and conflicts. However, as the next section will show, they as well end up providing a framework and conclusions that can accommodate and make sense of the encountered ontological difference.

3. Ontological Encounters in the GMO Controversy

According to Susana Carro-Ripalda and Marta Astier, much of the research that is carried out in relation to the question of what smallholder producers in the Global South truly think of (and say about) agricultural biotechnology is unable to grasp the “ontological incompatibility” that exists between the experienced human/nonhuman relations in small-scale agriculture on the one hand, and the logic that underlies genetic engineering (GE) on the other.47 This is precisely because most social research is itself grounded in the crucial modern/colonial nature-culture divide: the former can only be known through scientific means, while the latter can be known through the study of social/cultural/political practices. Knowledge about nature is about establishing “facts”, which are either true or false (i.e. nature as “one” is either correctly or incorrectly represented), while knowledge about culture is about studying meaning, which is necessarily (due to the existence of different cultures) multiple.

The question of whether GMOs do or do not pose a “factual” danger consequently lies outside of the remit of the social sciences, which therefore focus on the social dimension of statements that are made about nature. But as Kregg Hetherington’s reflections on his own anthropological research journey in Paraguay make clear, this tacit signing-up to modern ontology can lead to difficulties in understanding the reality of the people one is interested in.48 Coming from a position in which he took for granted the scientific distinction between (proven) “fact” and “error”, Hetherington explains how he “translate[d]” the claims of the leader of a local peasant movement49 (Antonio) about the truth of (GM) soy “killer beans” into something else:

Until this point, I had approached ethnography as an extended discussion with and about humans, and I was less interested in beans than I was with what Antonio said about them … To be blunt, Antonio kept pointing at the beans, and I kept looking at him … I was comfortable saying that this was a figure of speech, a kind of political rhetoric, or even to claim that this is what Antonio believed, all of which explicitly framed ‘la soja mata’ (soy kills) as data for social analysis, rather than analysis itself worthy of response.50

However, Hetherington points out that not believing in the truth of the killer bean did not prevent him from “participating in Antonio’s knowledge practices”. 51 Becoming involved in the anti-soy bean activism of the peasants, Hetherington became “part of the situation” that made the killer bean turn into a crucial agent in a court case that was brought against two soy farmers for the murder of two activist peasants. As a result, killer beans became transformed into a matter of national concern. Crucially for Hetherington, participation involved more than joining the situation in spite of his lack of belief: it led to him becoming immersed in a relation with both peasants and beans that started to have a physical impact on him—in de la Cadena’s words, he indeed became “partially connected”: 52

Beans didn’t scare me at first. Indeed, as a foreigner to the situation that gives rise to killer beans (a Canadian no less), giant fields of soy were a familiar, even a comforting sight. But it took only a few months with Antonio for me to start feeling the menace from those fields. Soon, the sweetish smell of glyphosate, recently applied, and especially the corpselike smell of 2, 4-D mixed with Tordon, could ruin my appetite and make me expect to see people emerge from their homes to show me pustules on their legs and stomachs.53

Similar observations are also found in Carro-Ripalda and Astier’s contribution to the 2014 Agriculture and Human Values symposium on the challenges of making smallholder producer voices being heard in relation to agricultural biotechnology.54 While most of the contributions to the symposium concentrate on how to tease out smallholders’ “real” voices in the most effective way, Carro-Ripalda and Astier critically reflect on their own perceived failure to become knowledgeable about smallholders’ voices in their research on GM maize cultivation in Mexico.

It was through ethnographic fieldwork in rural areas in Central Mexico, in-depth structured interviews, focus groups, participant observation and, finally, a National Workshop in Mexico City with over 50 stakeholders (including smallholder producers) that Carro-Ripalda and Astier attempted to get a better sense of what the actual voices of peasants in the GM controversy were trying to convey.55 However, particularly the final workshop, which aimed to create conditions under which Mexican smallholder producers could speak on their own terms about GM maize cultivation, “unwittingly reproduced the conditions of exclusive, techno-scientific and regulatory spaces”. 56 The public discourse that centres on questions of safety, science, possibilities of regulation and problems of potential contamination, and which is upheld by both GM maize proponents and antiGMO activists, dominated the workshop debate. Even when present smallholders raised different concerns, the discussion always returned to the previous, main ones, as if those who had spoken differently “had not spoken at all”. The way that smallholders could articulate “their perceptions, ideas, and desires” was thereby “severely limited”. 57

Carro-Ripalda and Astier are focused on the dominance of one particular (techno-scientific, regulatory) discourse that, they maintain, disabled smallholder voices engaged in different discourses from speaking up or, when speaking, from being heard. In other words, smallholders were unable to adequately represent their own understanding of what is at stake in the GM maize controversy in Mexico. Considering what I have pointed out in the previous section, based on Rojas, difference is thereby transformed into an epistemological, rather than an ontological one: Carro-Ripalda and Astier’s argument is implicitly based on the assumption that, under the right conditions, difference can be translated into something that can be communicated to, and discussed with, other stakeholders. But the term “ontological incompatibility” that the authors themselves use indicates there is something else at play, which cannot easily be translated: the nature of the relation of smallholder producers to their “land, seed, crop, climate … as told and understood by themselves”; the “central place” that Maize continues to occupy in Mesoamerican pre-Hispanic cosmology, and “the social and cultural significance” that goes along with that.58

Carro-Ripalda and Astier’s emphasis on the problem of the dominant discourse, and the overarching Mexican structures of domination this discourse is related to (such as the “neoliberal vision of the Mexican agricultural future”59), makes it occasionally difficult to understand what the problem of “ontological incompatibility” really is about. At the end of the article, the place of the smallholder producers whom they have engaged seems once again clearly delineated and knowable: at stake for smallholders are, Carro-Ripalda and Astier argue, “their lives as maize cultivators, their pride in their craft and knowledge, and their ceremonially demanded right to information, choice and access to their ‘own resources’”. It is not just about “retaining ‘traditional’ ways of agriculture”, as the anti-GMO movement maintains, but also about claiming “political, economic and socio-cultural rights.”60 Though this certainly adds a significant dimension to the debate, it indeed simply seems to add to, rather than radically challenge, the frameworks that are conventionally used in the anti-GMO debate, as well as the frameworks that focus on how to bring out and represent other people’s “voices” in a better way. Is this simply unavoidable when it comes to the production of academic knowledge through/in academic writing? As already indicated in the previous section, academic writing pursues by definition the objective of enhancing knowledge and providing improved insight into a certain situation. In its very structure, an academic piece of work aims to resolve and settle, rather than to dislocate, to destabilise, or to provide discomfort.

Carro-Ripalda and Astier’s article is meant to render legible their own encounter of ontological difference for an academic audience. Is it possible for the reader to dig below these representational strategies, and to relate more directly to their encounter of what they themselves call ontological incompatibility? And which has led them to brand their final workshop, in a quite un-academic way, as a “failure”? There are a few places in the article in which their inability to put into words and arguments all of “the complexity of experiences, relations and reasons that bind people to maize”61 is more obvious. Becoming attuned to this complexity is linked to the authors having to become at least “partially connected”—to yet again use de la Cadena’s phrase—to the relations they attempt to trace. It is interesting, for example, that Carro-Ripalda and Astier talk about “voices” as going beyond the semantic level, as conveying something acoustically, and as requiring a form of listening that shies away from asking pre-given questions. It is also interesting that some of that took place when they literally walked together with their interlocutors; precisely as it is emphasised by Blaney and Tickner:62

Despite the shortcomings of the workshop … we felt that that, through our research on the ground, we had engaged with male and female farmers, heard about their perspectives on GM and their visions of a rural future, and accompanied them to work in milpas and markets. So, what do smallholder farmers’ voices sound like? What meanings did they convey to us? We will provide here but a few of those sounds and meanings … 63

Despite returning to the idea of voices as conveying “meaning” in this quote, meaning is related to sounds, to walking together, to particular places with their own sounds, smells, and colours. The sample of actual “voices” Carro-Ripalda and Astier then choose to present yet again invoke an intricate sense of the relationality of farmers and nonhumans:

It is a joy to plant, getting hold of the maize, of a beautiful cob which is pleasant, to go to the harvest, to look at pretty cobs, all regular. Because this is what sustains me.

You can see the difference in the seeds straight away … You need to look at the cob and as soon as I grab it I see the difference.

It is the person who knows the seed the one who chooses it [for replanting the following year].64

By contrast, GM maize is associated by the smallholders whom Carro-Ripalda and Astier cite with feelings of “artificiality, estrangement and distrust towards the created object (the GMO) in itself, not only because of deep ontological considerations … but because of the political and economic motives which are ‘assembled’ into it.”65 Although the authors make a distinction between ontology and politics/ economics here, their invoking of the “assemblage” precisely shows how the latter becomes part of ontology itself, and then (as in the case of Hetherington) impacts on the sensual, bodily connection with the maize. Understanding the relation between “things” in this way allows for an analysis of power and domination that has at least the potential of moving beyond pre-given frameworks; strategically suspending them in order to “sharpen [the] analysis of exactly how power operates, how relations are made and undermined, and with what consequences”. 66 Genetically modified maize is a problem because it is part of particular Mexican neoliberal visions and strategies, but in the context outlined by Carro-Ripalda and Astier, that vision is not only (and not even primarily) made sense of through given frames of knowledge, such as Marxist theories of the exploitation of labour, but sensually, through the way it disrupts the (physical) pleasure and joy that has sustained the farmer-maize-assemblage so far.67 GM technology externalises the maize from farmers and estrange them from their ways of life; and it is only through this externalisation that GM maize becomes perceivable as a potential source of “contamination”, as a danger against which farmers need to “defend” their seeds.68

Now, some might counter that the previous paragraph in practice only provides a fancy repackaging of the two well-rehearsed arguments brought forward by many anti-GMO activists: (a) that the problem of GMOs is an intrinsic property that makes it “unsafe” (which activists try to scientifically prove), and/or (b) that the fundamental problem of agricultural biotechnology is that it estranges farmers from their traditional, ancestral way of life, that it allows for their exploitation, and that it provides a further foothold for neoliberal visions of how the world should be ordered. Both arguments are grounded in modern ontology: the first goes down the route of science (contesting “facts” about the “nature” of GMOs on the basis of science itself), while the second goes down the “social” route by either making a case for the need to respect cultural multiplicity, or for the need to prevent economic exploitation. Some activists make use of all of these routes and arguments. Famous environmental activist and intellectual Vandana Shiva, for example, determines the alienating character of the GMO to be an intrinsic property, while at the same time depicting smallholder producers as intrinsic “‘reservoirs’ of local or indigenous knowledge or as ‘natural’ conservators of biodiversity through their traditional practices”. 69 According to Carro-Ripalda and Astier, this “unwittingly reinforce[es] images of smallholder producers as passive, timeless and voiceless.”70 This leads to precisely the sort of romanticised reification of “difference” that I have critiqued in the previous section of this article—paradoxically, in this case, on the basis of an ontology that is deeply modern, as it regards both “things” and “people” as ontologically stable and classifiable.

By contrast, the authors of the two texts I have analysed in this section trace ontological encounters that cannot be contained by the nature/culture dichotomy. There is no pre-given (social) theory of neoliberalism and global power relations that dictates how the “voice” of the farmer needs to be made sense of. There is also no pregiven understanding of the “factual” (scientific) nature of GMOs. The notion of radical difference that comes up in these two texts emerged from precisely the “misunderstandings” that the encounter of ethnographers with “other people” and their relations brought to the fore; but importantly, it did not make any clearer to the ethnographer what the “stuff” that grounded the misunderstandings is actually composed of.71 Yet, somewhat paradoxically, despite all this emphasis on misunderstandings, incompatibility, grappling, failure, and critical self-reflection of one’s own assumptions—at the end of the day what is left for the readers (at least if they do not explicitly focus on the “ethnographic excess” found in the writings) is the impression that they know more about “stuff” than they did before: that they understand the situation better, that new knowledge has been produced, that the object of analysis is more transparent than it has been before. How can this subjugation of the encountered ontologically difference to academic strategies of comprehensive sense-making avoided (if at all)?

This article itself is now coming up to what would normally be a conclusion—i.e. the treacherous waters of nailing its contribution to knowledge. Given that this article is yet again another “third-level” engagement with questions of ontology and decoloniality, the question is whether there is any way to avoid this pull of hegemonic modes of academic knowledge production. Rather than providing a conclusion and reiterate the core argument that the article has made, I will attempt to finish this piece by raising even more questions, and by providing some further reflections.

4. Turtles all the Way Down: (Further) Reflections on What Questions to Ask

The pull of hegemonic systems of academic knowledge production is difficult to avoid. This is the case even in writings that are directly based on ontological encounters and controversies, and that reflect on the displacement that encountering different ontologies has entailed. But as I have indicated, this problem is even more pronounced in writings—like my own—that provide what I have previously called “third-level” sense-making of ontological encounters.

The contribution of third-level analysis is usually a conceptual one, which makes it by definition veer towards the general and abstract rather than the concrete. In relation to the literature on decolonial thought and the ontological turn, this becomes manifest in three different (yet interrelated) ways: first, in the desire to provide an understanding of ontology that enables a conceptualisation of the former as multiple. Drawing on the work of Mario Blaser and Eduardo Viveiros de Castro respectively, Rojas and Blaney and Tickner argue that ontology can be thought of as multiple if reality is understood as always being “enacted” or “performed”. 72 This is what Blaser calls an understanding of ontology as “materialsemiotic”: one that defines reality as “always in the making through the dynamic relations of hybrid assemblages”. 73 Pinpointing it like this is inevitably geared towards answering the question of what reality as such, in general is about. Secondly, there is an ambition to coin the general normative-political project that arises out of this understanding with a singular concept, such as the pluriverse. Thirdly, arguments about ontological multiplicity and the emancipatory-decolonial political projects that arise out of its recognition are written for an audience of a particular discipline, such as IR: the aim is to provide a wholesale, general rethinking, or, indeed, “reconstruction” of the latter.74

What sort of questions drive conceptual work into that direction, and what desire “to know” underlies the questions? According to Cherokee philosopher Brian Yazzie Burkhart, for Native Americans “the questions we choose to ask are more important than any truths we might hope to discover in asking such questions”. 75 By contrast, Western knowledge is always (at least in the mainstream) propositional knowledge: “knowledge of the form ‘that something is so’”. Here, knowledge cannot be verified by referring to direct experiences: “there must be something underlying them and justifying them”. 76 Burkhart gives the example of the “routine response” given by “Western people” to Indigenous accounts of creation: “In [one] account, the earth rests on the back of a turtle. The Western response to this account is simply the question, ‘What holds the turtle?’” This question makes no sense to the Native storyteller, because the truth of the story lies in the paths to rightful action that it outlines, rather than what it has to say about the “reality” of the world. But when the Westerner insists on the question, the answer finally is: “‘Well, then there must be turtles all the way down’.”77

Equating Rojas’ and Blaney and Tickner’s work with European mainstream (hence analytic) philosophy seems, at first glance, incredibly unfair. After all, those authors precisely advocate the cultivating of knowledge by direct awareness or acquaintance in exactly the way that Burkhart identifies as typical for Native Americans. But on the other hand, the framework that circumscribes their emphasis on the need for “concreteness” is still an abstract one that wants to answer the question of how things really are and should be: enacted, performed, pluriversal, … The point is not whether this argument about reality and politics is right or wrong. The point is to recognise that it is driven by particular questions that might make no sense in the context of other intelligence systems, but that need to be addressed in an academic article in order to make a conceptual argument compelling, convincing and original for an audience that primarily sits (whether it likes it or not) within a Western, colonial, hegemonic system of knowledge production.78 And even when the contribution to knowledge production is not primarily conceptual, as in the “second-level” work that I have analysed in the previous section in relation to the GMO controversy, the final argument that is made (e.g. about peasants’ economic and cultural rights) is yet again lucid and comprehensible to an audience that seeks to comprehend “stuff” within modern parameters.

Where to go from here (particularly as a white, European scholar)? As suggested by Tucker, one way might be to engage in much more direct, ethnographic research, which would enable more direct experience of ontological encounters. Despite previously-mentioned problems of even that research not going far enough, there is without doubt more space for providing a sense of grappling and dislocation if the originality of a piece of work is not purely grounded in the conceptual contribution it aims to make. However, not every scholar is able— body-, context- or funding-wise—to spend extensive periods of time in different places, and the ethical and political pitfalls of researching “radical difference” through fieldwork with—but often rather on—others have been pointed out by Indigenous scholars numerous times.79

But even for those unable or unwilling to do more primary, empirical research, there is space to push the boundaries of what can and should be written about (and how). For decades there have been attempts to provide “innovative” platforms, for example at conferences, to talk about “stuff” in different ways (e.g. through storytelling or artistic practices; not at least by e.g. Indigenous peoples themselves80). However, these “innovations” are still at the margins, and they will most likely never be able to compete with acknowledged knowledge production outlets such as journal articles and scholarly books. But even within the latter, there is always at least some space to push for more open-endedness, more reflection on the author’s embodied positionality, more auto-critique, more uncertainty and grappling (even if this is based on reading about the ontological encounters of others).

Although this sort of embodied self-reflection on a writer’s “situatedness” (which in my own case means being “on the colonising side of a divide”81) has obviously been advanced by many critical scholars for decades (including feminists and post- as well as decolonial scholars), this article has hopefully shown that there is still (always) a need to go further, in order to more fundamentally challenge hegemonic, modern/colonial modes of knowledge production. The sense of unease that I have outlined in section two was particularly strong when reading conclusions that were geared towards making recommendations for the discipline of IR, or for “international politics”, as such. Aiming to make generic conclusions for entire disciplines, political fields, or global “issues” pushes the generality and abstraction of a contribution even further away from an advocacy of the concrete. Why, and to whom, does it matter whether IR, as a discipline, or international politics, as object of study, becomes more pluriversal or not? What are the actual benefits of the concept of the pluriverse in the first place? Or to pick up the theme of this special issue: why does it matter whether IR is, or should move into, a mode of affirmation rather than critique?82 Why is this a good question to ask—and for whom? This is not just a theoretical problem, but it has real-life consequences for actually-existing decolonial struggles. The desire for making a generic argument about relational ontologies and a pluriversal politics harbours the danger of making a huge variety of demands and struggles that often exist in tension and contradiction with each other commensurable. Indigenous demands for the repatriation of “their” land might be at odds with the social justice demands for redistribution and “the commons”. 83 For Blaney and Tickner, decolonial thought is commensurable with not just the ontological turn literature, but also feminist and other critical interventions.84 Mignolo and Arturo Escobar advocate a transnational fight for global justice and are enthusiastic about the potential of global movements to achieve that aim together.85 Like Mignolo, Rojas explicitly draws on the World Social Forum slogan “Another world is possible” as well as the Zapatistas slogan of “a world where many words fit” to make her case about the need for a pluriversal understanding of emancipatory-decolonial politics.86 While it can be argued that this problem of seeing all these struggles and demands as commensurable goes back to a lack of actual engagement with particular decolonial practices and battles, what I have argued in this article is that it is also related to the problem of how and what sort of knowledge is produced and valued in the Western academy: knowledge that is abstract, generic, and applicable beyond a specific context. Knowledge that is driven by the desire to know what is. Knowledge that desires to know what holds the turtle—all the way down.

#### Time does not accumulate -- contingent change is possible and good.

Kelley, 17—Gary B. Nash Professor of American History at UCLA (Robin D.G., “Robin D.G. Kelley & Fred Moten In Conversation,” transcribed from <https://www.youtube.com/watch?v=fP-2F9MXjRE>, 1:57:36-2:02:56, dml)

KELLEY: Um, Fred—Fred will take most of these questions. So that's why I'm going to begin first because he's gonna, he's gonna—he's gonna end it because he, he, he has the answer to all these questions ‘cause I turn to him for these questions. On the specific, on the first question, I just want to make sure I understand it because I'm, you know, I don't always recognize, uh, it may be because I'm just old, but I don't always recognize, uh, that black politics, black [unclear—maybe “guys”] work politics have been structured or defined by white supremacy. I mean, white supremacy is there. And I guess maybe because I'm such a student of Cedric Robinson, you know, not everything is about, or in response to, white supremacy. And in fact, one of the critiques coming out of doing Southern history was this idea that race relations framework, that race relations defines, uh, African-American history or Black history. And it's simply not true because much of what people do in terms of, of social formation, community building, um, is, is, is what Raymond Williams might call alternative cultures. In other words, it may be structured in dominance in some ways, but not defined by it. And Cedric's Black Marxism, you know, really made this point. He talks about the ontological totality, you know, the, this sense of being and making ourselves whole, in that we come out of an experience, again, structured by white supremacy, structured by violence, structured by enslavement and dispossession, but, but one in which western hegemony didn't work, you know, that modes of thinking wasn't defined by Enlightenment modes of thinking. In other words, that, that part of the Black radical tradition is a refusal to be property, to even admit that human beings could be property. You know, so we sometimes give white supremacy way too much credit, and maybe I misunderstood the question. And so I think that there's lots of things that happen outside of joy and survival, and survival is important, but survival is not the end all, you know. So I think, and I'll give you one very, very specific example, and now I'm not gonna say anything else after this. The way we have tended to more recently treat slavery, Jim Crow and mass incarceration as a piece, as the reinstantiation of the same thing, the continuation, that denies the fact that these systems are actually distinct, that they are historically specific, and in fact they’re responses to, in many ways, to the weakness of this as a racial regime. So if you think of like the whole idea of the new Jim Crow to me is very, very problematic. Um, although that book by Michelle Alexander is very, very powerful and very useful in terms of educating people about prisons. Jim Crow was not the continuation of slavery. It was not. Jim Crow was a response to the Black Democratic, uh, upsurge after slavery. It was a revolution of Reconstruction. It was a way to try to suppress that. The fact that, that, you know, there was this incredible response. That's why there's a, there's a huge gap between 1877 at the official end of Reconstruction and the rise of Jim Crow, which is the 1890s, disfranchisement, lynching. That's because you've had 13, 14, 15, 20, 25 years of a democratic possibility and struggle. The same thing with mass incarceration—yes, we've had incarceration, but it's, but that, that, that, that upward swing has a lot to do with, again, responses to the struggles in the 1960s, the assault on the Keynesian welfare-warfare state, the fact that you know the, the war on political, the formation of political prisoners, those struggles in fact was the state's response to opposition. And so if we don't acknowledge that, then what we end up doing is thinking that somehow there's a structure of white supremacy that's unchanging, fixed, and so powerful we can't do anything about it when in fact it's the opposite. White supremacy is fragile. White supremacy is weak. Racial regimes actually are always having to shore themselves up precisely because they're unstable. We can see that. We can't see it because the whole system of hegemony is to give us the impression that it is so powerful, there's no space out. And yet it’s working overtime to, to respond to our opposition. Right. That may not answer your question, but that's sort of a way I think about it. Maybe it’s not satisfactory, but yeah.