Making the drone strange: the politics, aesthetics and surrealism of levitation

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Abstract. In this paper I decentre the drone from a different kind of vertical figure that has its own prehistory and parallel history of being aloft and particular sets of aesthetic geographies we might productively deploy to reorder what we think about drones, and especially the human’s place in or outside of them. The paper explores in what ways we might examine the drone from other points of view that are technical and political, but also theological, magical, artistic and aesthetic. The prehistoric or parallel aerial figure to be considered is the levitator, the subject or thing that floats without any attributable mechanical force, visible or physical energy source. The paper draws on notions of aesthetics and politics in order for the levitator not to be compared with the drone, but to enable its very different visual and aesthetic regimes to begin to redistribute quite a different set of drone geographies that are ambiguous, mystical, gendered and sexed.

1 Introduction

In a published piece in Cabinet Mark Dorrian (2014) reminds us that drones, especially militarized ones, have been received and anticipated by other and earlier aerial figures. He compares the prowess of the drone to the blind seer, who embodies “the idea of a powerful, far-reaching, and penetrating vision [...] its sentience exceeds or transcends the quotidian world of the senses” (2014:48). This is odd. In the drone we find not only the future of a barely imaginable if apparently cleaner and more precise violence that militaries and governments are keen to communicate, but analogues of mythic figures possessing powerful capacities of sight and war-making. These seemingly incompatible apprehensions often coincide. Dorrian finds that representations of “archaic monsters of vision” are used in order to advertise military efficacy. For others such as Jordan Crandall (2014), the drone is a “winged fusion of human beast and machine”. History combines with myth and a monstrous biology in Adam Rothenstein’s (2015:xiv) view, where the drone is “a monster capable of terrible acts” as well as a “hero, uniting disparate technological forces” or even “a mythical creature not unlike a unicorn or a zombie”.

In other words, there are other kinds of registers of the drone that we might attend to which have been folded into several of the drone narratives recent scholarship has interrogated. This is obvious within the not too subtle signifying economies of the military and the media, industries which pull on primal and archaic feelings of familiarity about the drone within surveillance and weapons systems such as the “Gorgon Stare” and ARGUS (Autonomous Real-Time Ground Ubiquitous Surveillance). Of course, whether such notions, imaginaries and affects of the drone are misplaced or misguided, or we find curious exaggerations in their analogies of omniscient vision from classical figures (Wall and Monahan, 2011), they are unquestionably there. As Noys has recently written, “our experience of the “reality” of drones involves these myths and metaphysics, which return to haunt us” (2015:4).

Therefore, there might be reason to retain the drone within a more ambiguous misty and mythic register because actually the mythic invocations do matter. They take us to a level of expression where drones are experienced and imagined. They express the sensations and experiences that might elude the ever-increasing attempts at fidelity to the drone’s view.

It is not the intent of this paper to explore the drone from within its own modern history, to which authors have located earlier versions in the spaces of Vietnam, and even the Second World War and before (Gregory, 2011; Shaw, 2016), nei-
ther do I want to position the drone within wider visual, cultural and political histories of the view from above and an emergent geography of the vertical (see Dorrian and Pousin, 2013; Adey et al., 2013; Graham and Hewitt, 2013). Instead, in this paper, I try to decentre the drone from a different kind of vertical figure that has its own prehistory and parallel history of being aloft and particular sets of aesthetic geographies we might productively redeploy (Hawkins and Straughn, 2015).

This is to take the drone from a side-long view, a kind of squint – if you will – in order that we might begin to reorder what we think about drones, and especially the human’s place in or outside of them. What profit might there be, to which this paper devotes its argument, in exploring the drone from other points of view that are technical and political, but also theological, magical, artistic and aesthetic? The precarious or parallel aerial figure to be considered is the levitator, the subject or thing that floats without any attributable mechanical force or visible or physical energy source.

It is worth briefly spending time exploring the different traditions and contexts from which levitators have been born (Adey, 2017). The levitator could not be more different to the drone. Our ideas of levitators come from a wide range of traditions in philosophy, theology, politics, science and visual culture. Christian, and almost every other major faith’s, narratives of ascension would follow the rising of the soul to join with God, commonly allegorized in pilgrimages, rituals and rites of passage up hills, steps and mountains and, ultimately, floating figures (Della Dora, 2014; see also Wylie, 2002). In pre-modern societies, animistic belief systems hold the shaman as levitator elect. Whilst our early modern and medieval political ideas of sovereignty and kingship, as expressed in illustrations or manifested in legal traditions, have placed rulers and kings somewhere between earth and the heavens (Kantorowicz, 1957). Just about levitating and floating kings, saints and holy figures were common in the middle ages.

From political-theological notions of sovereignty, it is unsurprising that levitators have been embodied in the more recent cultural expressions of hot and cold warring superpowers found within comic book heroes (see Dittmer, 2012, but especially Bukatman, 2003). The flight of figures such as Superman lays the platform for an omniscient and penetrating view to see across the city, and potentially through buildings. Sight becomes a weapon as a red laser beam, able to cut through any material. Superman’s aboveness or detachment sets him apart from others. For Neal Curtis, levitation is thus a common trope for superheroes who are frequently represented as “hovering just above the ground when speaking to mere mortals or those differently abled” (Curtis, 2015:155). Superman and other superheroes regularly “speak down” to others.

The point here is not to attempt to make any rough or blunt comparisons between the drone and levitators, or to explore artistic interventions that are engaging drones in undoubtedly fascinating and important ways – the work of James Bridle, Joy Garnett and others has been borne in mind elsewhere. Rather, it is to show that levitators can help us make the drone strange, sometimes by helping us to find them more familiar. Indeed, as Jablonowski (2015) has written on amateur drone culture following John Law’s writings from science studies (Law, 2002), decentering the drone may mean accounting for its “fractionality” as a multiple object. This means avoiding any “false juxtapositions” between different points of view, but recognizing that multiple perspectives, stories and narratives may make up the reality of an object.

Instead of instantiating the drone’s newness or unique properties the paper contends that the making strange of the drone through alternative aerial figures can offer a modest kind of critique, specifically by drawing on the levitator to offer the potential space for an aesthetic analysis and subversion (for the wider import of a surreal and creative geography see Hawkins, 2013; Fenton, 2005; Pinder, 2013). The paper draws on notions of aesthetics and politics in order for the levitator not to be compared with the drone, but to enable its very different visual and aesthetic regimes to begin to redistribute quite a different set of drone geographies that are ambiguous, mystical and also highly gendered and sexed.

In the following section the paper sets up the levitator and the drone in relation to the omniscience usually assumed of aerial and vertical perspectives and technologies. In Sect. 3 the paper then sets up the framing for the paper’s more substantive analysis of levitators and drones through surrealism and surrealists, and aesthetics in the work of Ranciere, before exploring three different registers of levitators and drones: the register of stories and testimony; magic and myth; and embodiment and abstraction.

2 Departing omniscience

To begin the paper will start to outline several sets of tendencies we could identify within levitators and the drone. These quickly begin to depart one another as the levitator diverges from the usual visual and aesthetic regimes we are used to associating with the drone and its wider networks.

Ideas of levitation surprisingly penetrate writings on sovereignty. “The sovereign rises above the body” writes Jean-Luc Nancy (2007), seeing that the sovereign does not just act from high places, an altar, a throne or a mountain. For Nancy, the sovereign is the summit, it is height. The sovereign is the most high or “inequivalent”, and hence various authors have sought to capture its detachment as exceptional powers, most obviously in Agamben (1998, 2005). As Nancy explains, “Its name is superlative: literally what raises itself above from below, and what is no longer comparable or relative. It is no longer in relation, it is an absolutum” (Nancy, 2007:97). Affirming wider debates about the king’s nature, the sovereign here escapes any earthly limitations on their powers such as by law, and does not even correspond to
ideas of structure or hierarchy that would sustain or constrain them. Peter Gratton concludes that the sovereign may as well be self-supporting, an “ex nihilo”, founding itself on nothing other than its own rapport to itself” (2012:205).

In many respects the drone has come to stand in for and perform particular aspects of this form of sovereign, fetishized and technological power (Shaw and Akhter, 2012). Drones are complicit within decisions over life at a distance – to kill – often by foreign powers extraterritorially. Conducted outside of legal war zones the drone has begun to remake the norms of sovereign power wherein exceptionality and exceptional conditions, such as “imminent threat”, have helped provide the grounds for their deployment (see Kindervater, 2015).

Levitating figures such as sovereigns – in their worst possible incarnation discussed above – also help capture something of the literal and figurative exceptionality drones appear to embody through their apartness in the skies. This association with flight, vertical perspectives and omniscience – or omnipotence – others find are shared in the grandiose visions of modernist urban planning. Adnan Morshed (2004) has aligned superheroes, such as the pre- and post-war renderings of Superman, not with sovereign power, but architects and planners in the form of Le Corbusier’s famous gestural hand (over Ville Contemporaine) and Norman Bel Geddes’ futurama at the 1939 New York World’s fair. Morshed calls this collision of vertical urban power an aesthetics of ascendance (see also Graham and Hewitt, 2013).

However, wider perspectives on levitation begin to tell us that the levitator does not typically occupy a position of omniscience so easily, and as we will see, drones might not either.

Not everyone levitates. The historian of religion Mircea Eliade (1964) would argue that levitation is fairly limited to “sovereigns, heroes, initiates”, and we should add, superheroes, mystics, artists, fashion models, astronauts and cosmonauts bestowed with privileged knowledge or powers. However, levitators do not often or always occupy the position of the powerful.

Levitators have often been marginalized, castigated or objectified. They have been the subject of sartorial humour especially in Jewish representations, stories and literature of the luftmensch, a figure that derides and portrays the rootless and wandering Jew (see Berg, 2008, and Adey, 2013). European visions of the Orient frequently accounted for exoticized and eroticized women levitated by a male magician. Some of the first moving images from India were filmed by Thomas Edison in 1902 in a film titled Hindoo Fakir, showing a woman levitated by a magician before being transformed into a butterfly. As Italo Calvino (1988) has suggested, this trend for lightness or levity may well be a response to the “precarious existence” of potential levitators, expressed perhaps in racism, a form of sexual exploitation or poverty. Levitation is not always wilful either. Levitators are not that ready to leave the ground as divine ecstacies and their witnesses testify. Their bodies succumb neither to gravity or the oneiric impulse to float away (Bachelard, 1988). Many levitators find themselves held in suspension by others, sometimes tentatively for a while, and at other times, unwittingly.

There are curious but quite different circuits of travel here. In the last 50 years we have seen deployments of the drone in the colonial spaces of South Asia and eventually Iraq and Afghanistan. The drone’s historical antecedents can of course be found in colonial air policing in almost the same spaces of the Middle East (Saïda, 2014; Neocleous, 2013). However, whereas the far off would be determined as the proving grounds of both the drone and the levitator, it is the levitator that tends to become the subject of colonial and highly gendered formations of power. The drone tends to be understood as wielding it uninterrupted.

3 Surrealism and the sensible: critique and imagining other worlds

By turning to the different myths that abut the levitator, articulated through a variety of different kinds of modes of address, from scientific exploration of the paranormal, to artistic forms of expression and resistance, we might reflect back on the drone from really very different aerial points of view. The levitator is in many respects diametrically opposed to the drone. It is almost non-technological. The levitator is given lift from spiritual, magical or unexplainable motive force, as well as deceit. It is passive and rarely violent or, rather, it experiences violence against itself, and it rarely sees but is seen and objectified, if not exploited.

We could consider these alternative figures as providing us with different sets of aesthetic orders. As Ranciere (2006) has elaborated on the relationship between the political and sensible or aesthetic experiences, various orders partition or distribute the sensible so as to produce a common sense (see for instance Dikey, 2012, 2013). The political and aesthetic collide when aesthetics enables the disruption of that order; when the distribution of the sensible becomes contested is a political moment. Crucially, for Ranciere and following Marshall (2013), aesthetics offers up openings or ruptures for the imagination of new kinds of futures, new worlds,”new ways of seeing and doing” (Marshall, 2013:57).

It is not that the levitator could or should offer us any kind of form of comparable aerial figure; in fact its complexity and historical specificity would make this task very difficult. Instead, the drone gathers together particular aesthetic orders, which naturalize certain political relations and make them invisible. By bringing the levitator’s different aesthetic regimes to a juncture with the drone, we might begin to reveal those orders and invisibilities, and start to challenge them more consistently. For these specific modes of aesthetic address we might turn towards levitative engagements within surrealist artistic and political traditions in search of escape, critique and the imagining of other worlds.
This aesthetic and political potential is actually common to the levitator. Remembering Calvino (1988), the levitator is an obvious figure of escapism. Through the exclusion of Jews in modern Europe, floating figures of the luftmensch in Marc Chagall and others both reinforced and nailed against this persecution. In shamanism, the practical woes and precarity of “tribal life” through “drought, sickness, evil influences” could be transcended by spiritual and practical levitation. Indeed, within the socialist avant-garde – with which Chagall was closely related – weightlessness became a cosmic utopian ideal of emancipation within art, science fiction and architecture (Stites, 1989). In this sense levitation is a very real gesture of escape, an emancipation through just a little flight. As Calvino (1988) sees it, the body is shorn of weight, and, by “flying to another world, another level of perception”, the levitator finds “the strength to change the face of reality”.

We might then see the levitator as a directly radical figure. Scott Bukatman (2003), exploring Fat Boy Slim’s music video “Weapon of Choice”, directed by Spike Jonze in 2001, depicts Christopher Walken as an alienated business type, impressive in the foyer of a hotel. Along with the music, the video accelerates to animate what Bukatman describes as a “bricolage of sampled tracks, acts of fantastic mobility, and perceptual surprise (with the merest touch of shock)” (2003:2), as Walken dances, performs acrobatics and eventually flies in the lobby of a generic Los Angeles hotel. For Bukatman, the video offers a Certeaudian form of tactics, “of inhabitation and trespassing, a fantasy of repossessing both one’s space and one’s body, almost a jumping out of one’s skin” (2003:2). The potential of Walken’s mobility is what Bukatman describes as a remapping of the subject through weightless escape that transgresses social, spatial and bodily norms.

Within the longer trajectory of surrealist thought and practice, the relationship with levity is not uncomplicated but a troubled one. It is most problematic in the reduction of the female body to a levitated muse. Even one of the most high-profile proponents of surrealism, Salvador Dali, was happy to suspend partially unclad women on a photographic plate, or graphically dismembered on canvas limb by limb (see Sweeney-Risko, 2015, for a complication of this view). Dali and others also explored levity through bizarre and strange compositions in a bricolage of genre, style and myth. Dali’s many encounters with levity, religion and science, would be expressed in his works of “nuclear mysticism”, “mastering gravity” through what he called a “quantum realism” that would see artistic production as a form of atomic experimentation. Coexisting with his turn to science, however, was conflation of genres, belief systems and ontologies through a “mysticism” that he would declare, “is not only religious but also nuclear and hallucinogenic”. Therefore, from photography to his paintings, Dali’s works on levitation display mash-ups of Renaissance figures with magnifications of atomic shapes and spiritual iconography. “Mine St Teresa of Avilia!” Dali cries, calling out the influential saintly levitator and mystic.

However, we may also come across the expression of levitation in surrealists who explicitly rejected motions of acquiescence or submission in their explorations of levitation, femininity and violence, such as the Spanish artist Remedios Varo (1908–1963). Varo flew with other women artists (such as Leonora Carrington), first from Spain and then from Nazi-occupied Paris to take refuge in post-revolutionary Mexico during the Second World War. Her flight was completed with the aid of the Emergency Rescue Committee who would help other artists, writers and activist refugees to leave Europe. Varo’s escape followed an inspiring but suffocating relationship with the poet Benjamin Peret, close friend of the Surrealist leader Andre Breton.

Like Carrington, Varo’s works on levity can be seen as a form of supra-realism, turning to a variety of belief systems, folklore and alchemy, as well as experimental science. Freud, Jung and the famous theosophist and theorist of levitation, Madame Blavatsky, were authors among Varo’s collection of books. Indeed, levitation is common to many female surrealists, Carrington famously devoting her convent school days to rebellion and eventual expulsion through efforts to levitate her body. In Varo’s many numbered works we see solid bodies becoming light, their weight almost evaporating to the point that things tend to be shorn of their mass. Her imagery is shock full of ethereal floatings, “levitations, flights, ascents and heights” (Gonzalez, 2008:90) of things, cobblestones, instruments, floorboards, domestic spaces and other objects that rise and remain there, imbued with magical force. Levitation also reflected Varo’s interest in science as well as spirituality. Varo’s The Phenomenon of Weightlessness, depicting an Einstein-like scientist floating an earth-shaped globe orbited by a moon, would even be used as the front cover of a textbook on general relativity, The Riddle of Gravitation (Bergmann, 1968).

If we turn to Varo’s work Banqueros en accion (1962), Varo reflects on the figure of the banker. A woman in a shawl watches them cautiously as three bankers float, cloaked and ominously above a city, reflecting Varo’s anti-capitalist feelings, despite her courting commercial work in Venezuela. While this is perhaps one of the most ominous of Varo’s works, Capillary Locomotion (1960) is easily the most enigmatic. Three men levitate in a corridor, or at least they appear to be levitating, until one recognizes that they are in-fact floating on their long beards that brush the floor below them, curling up as if a monkey tail. The men, whose hair on their heads appears vaporous and cloud-like, ride their beards as if bicycles, their moustaches held just like handlebars. Above them from a window, another man peers out and ensnares a women who is lifted by his beard. Her hands reveal the asymmetry of power with the men. Her’s remain desperately outstretched, palm downwards, fingers reaching to hang on to her autonomy. The men hold their own in a grip.
If surrealism offers sometimes quite subtle, and, at other times, not so delicate subversions of gendered and capitalist relations through the levitator, might the surrealists offer some critical potential in their shocks, combinations, inversions and animations to redistribute the sensible in Ranciere’s terms? Therefore, holding together these qualities of the sensible and the surreal apprehensions of levitation, what kind of light might they help shed on the drone? I suggest that we can turn to three dominant aesthetic registers: stories and testimony; magic and myth; and embodiment and sexuality.

3.1 Stories and narratives

Levitators have always required audiences and testimony about them. Unlike the visual prowess of other vertical technological vehicles such as drones, the levitator can rarely see, neither does it readily archive its activities. The levitator requires that they are seen. The proof of the miracle of levitation in the eyes of the Catholic Church required empirical evidence from multiple and trusted sources. In the 17th century, Saint Joseph – the so-called flying friar – was famously subjected to Prospero Limbertini’s reforms of the Church’s procedures in confirming holiness, and in testing the provenance of miraculous claims. These rested on the material evidence provided by witnesses, whilst the assessment of miracles rested in a juridical decision by the church’s court (Vidal, 2007).

Therefore, alongside juridical claims to prove levitation had actually happened are numerous sets of truth claims, and different valuations of evidence and testimony. Unsurprisingly, expertise in the form of paranormal investigators, parapsychologists and the employment of weighing machines was common in investigations of levitators. Arthur Koestler would play an important role developing both a weighing machine and notions of levity. Koestler even tested his ideas by trying to levitate George Orwell – in perhaps the perfect juncture of levity, technology and the father of our notions of surveillance and control – at a dinner party (Scammell, 2011), before the Birkbeck physicist JB Hasted inherited the idea and possibly the inspiration for a levitation weighing machine, now held by the Science Museum in London. Other investigations would seek to measure and capture levitators through photography (see for instance Hiller, 2009). However, these forms of evaluation based on testimony do not fall into the singular goal of proving whether something had happened. The adjudicators on Saint Joseph were far more concerned over the cause of his levitation and whether his flights were magically or spiritually inspired. Indeed, many scientists and sceptical investigators of the paranormal, including well-known philosophers, were willing to believe that different mediums held a range of levitative powers. The power of narrative, or one’s own phenomenal experience, overrode their commitments to scientific rationality and physical laws.

Drones are involved in very different kinds of witnessing, recording and evaluation to this. Most drone-deploying militaries do in fact archive the communications and decisions of drone pilots, several of which have been released – albeit redacted – or leaked to the public to enable forms of journalist insight and legal redress. However, despite or perhaps because of these efforts the drone is still quite a misty object, refracted through a variety of narrative plays, knowledge and testimony, as well as shadows and hearsay, and convoluted pathways of data and communication.

Thought of in this way, what these testimonies may actually produce is vagueness and uncertainty. Rothstein and others highlight the drone’s ambiguity as an object and the difficulty of revealing the assemblages into which it is made and caught. Recently Derek Gregory has demonstrated the confusions arising from the complexities of the chains of decision-making and targeting that drones perform in complex networks. For Gregory (2011) and others, such a visual and decisional shroud is the paradoxical resolution of wider societal and militaristic scopic regimes that have sought to make the battlefield more transparent, and the population anesthetized. As combat, in other words, is made hypervisible, it also creates absences, blurrings and blind spots. Levitators should therefore help us insist, as Gregory (see 2011, and 2015) has begun to show, that the drone may play a part within complex targeting networks wherein the mists of confusion might quite often descend. Precisely because of the dispersed and distributed nature of drone violence, networked warfare may actually obfuscate rather than clarify a vision of conflict, warning us to be careful not to over-determine claims of drone legibility, the tightening of accuracy or the efficiency of kill chains either.

In other words, the partition of the sensible through drones and levitators seems to emphasize certain kinds of privileged knowledge, resting on the assumption that the drone can be made yet more visible, that bit more clear. Enormous efforts are conducted to “myth-bust” the drone (including the US Federal Aviation Authority, FAA, 2014) to determine what it can do, where it has been used and with what effect. Not only do these perspectives potentially obscure the multiple narratives and perspectives through which drones exist, and over which their governance struggles to perform, but they potentially reproduce the technological fetish of the all-seeing drone they have sought to question. Might levitators position us at different epistemological and aesthetic fetish through which the drone has been known, shown and proved, and cause us to resist ever-increasing attempts at fidelity?

Ian Shaw’s (2015) recent review of Chamayou’s (2015) Theory of a Drone suggests that Chamayou could be accused of a mythologizing of the drone by effacing the many networks of information, decision and law into which the drone is enrolled, and that Gregory and others have unveiled. However, while Chamayou overlooks the detailed relations into which the drone is assembled and performs, in their place he situates the drone into the context of Greek and Nordic narratives of invulnerability. Instead of simply effacing things, or losing the position of the drone within the webs of relations.
within which it is caught, what we could call Chamayou’s
mythic rendering of the drone performs a different kind of
locating, more at home with the levitator. These help us to
frame the drone into moral and ethical problems: should the
drone’s prosecution be virtuous or cause injustice? In what
ways does its invisibility promote abuse? How might these
mythologies of ancient storytelling compete with the con-
temporary myths of “precision”, “surgical strikes” and “tar-
geted killings”? In this manner, the mythological might also
provide some kind of promise to draw the drone outside of
the techno-political registers in which it is normally framed,
but to more familiar ethico-moral register of stories where
they can be familiarized and, thus, potentially understood,
deliberated and criticized.

3.2 Magic and mysticism

Levitation is often marked by a fervour of a religious cer-
emony or exorcism, the apparatus of the séance (the 1967
peace march on the Pentagon to levitate and therefore exor-
cize it) and the techniques to enlighten or investigate these
spaces and their accoutrements. Such techniques of making
levitation, and making levitation known, help distribute the
field of the sensible, as well as passions, excitement and other
collective affects to both convince or reveal.

Let us first, however, explore relations of agency. The lev-
itator is often understood as a spiritual vessel, a body submit-
ted to another’s distant will. Like other levitators, these ap-
prehensions of levity do not celebrate the wilful omniscient
view. The levitator does not hold the possessed gaze of own-
ership, surveillance or control as the drone may do by pres-
encing its “pilot’s” agency, but is more likely to be possessed
in such a way that the subject is pushed out.

The lives of many Catholic saints, recorded by the Bol-
lundists, stand out for the ways in which their flying ec-
stasies were accounted for and represented as miraculous.
These accounts are almost certainly expressions of platonic
and Christian mysticism, which hold how the soul could en-
velop a body in light and, with the levity of those rays, lift
the body on high in ecstatic possession or transverberation.
In the many writings of the 16th century Catholic mystic,
Saint Teresa of Avilia, levity “comes as a quick and violent
shock; you see and feel this cloud, [...] you are being carried
away you know not where” (Warma, 1984). In this sense, the
levitator is made exterior to their own body, and able to ob-
serve it.

Even if the drone obviously performs a completely differ-
ent quality of violence to this – even if the drone is far from
transcendent but regresses its targets through the shock of a
missile into bare life – levitator and drone may converge here.
The drone has tended to be constructed by those who wield
it in such a way so as to reduce any sense of its autonomy
(there have been numerous debates over the “autonomous”
and “unmanned” in different drone acronyms) from human,
and supposedly lawful and ethical, direction. Drones become
positioned as mere vacant bodies or tools as opposed to inter-
mediaries, as if to partition off a more lyrical, “agent-ful” and
chancer kind of drone from common sense. (For a perspec-
tive on the non-human in warfare, see Forsyth, 2013, 2016.)

Within these registers, more overt critique and subversion
might be possible. As we have seen, surrealism draws the lev-
itator into different traditions of indigenous magic and spirit
forces, bestowing material things with vital, animistic and
non-human material agency that cultural geographers are be-
ginning to show are so crucial to spaces of conflict (Forsyth,
2016; Thornton, 2015). This might alert us to the drone as a
composite of agents, which may not always prove to be so
reliable, and that may begin to help us reimagine quite what
we mean by piloting and the control of the drone (on other
unsettling distributions of agency in the context of aerial
objects; see McCormack, 2017). What Crandall (2013) has
called an object of both allure and threat, menace and desire,
tends to obscure moments of drone failure, of malfunctioning
communication systems, poorly manufactured or maintained
parts, an “excessively flapping rudder”. The official narra-
tivization and bureaucratization tends to silence these flaws
through illusion and creativity.

Surrealist bricolage may prove effective too. Combining
different traditions and genres to approach the drone might
not simply invert or invert several drone narratives, but once
again bring the drone into the realm of an albeit strangely
combined familiar. For instance, artist Philip Slagter uses a
surrealist recomposition of an image of hummingbirds, an
ambiguous character of Victorian levitative intrigue, which
also features in many Mexico–Indian myths and stories. In
Slagter, the future of drone wars may be microscopic in the
form of mechanical swarming birds, based on a DARPA
project on autonomous nano-drones. Slagter realizes this in
DARPA, Hummingbirds and Poppies (2015): in one im-
age, the drones fly aloft a pastoral scene of Teleutubby-like
children’s characters frolicking below. In another, the me-
chanical drones are situated across a Middle Eastern back-
drop with Apache-looking helicopters silhouetted against the
desert sky.

Recent research is revealing of other kinds of drone-
making and the spaces of their exchange and circulation
through elaborate but informal practices of representation
and anticipation, designed in order to garner enthusiasm and
excitement in the form of drone expos. For example, geogra-
pher Anna Jackman (2016) is beginning to reveal, as well as
the economics of drones explored by other authors (Cram-
pton et al., 2014), the buzz and atmosphere, the sociability, the
speculative logics and the rhetoric of the spaces of drone cir-
culation, consumption and exchange. From media reports to
the spaces of the drone trade show and arms fairs, we learn
that the drone economy is constituted by spaces of delight,
enthusiasm and “circus”-like spectacle. These are affects that
are seemingly incongruous to the drone’s weighty politics,
but permit its desire and exchange in what Rhys Machold has
described as the spheres of security policy mobilities (2015).
Art provides avenues for more direct aesthetic intervention into the sites of the drones’ making (see Ingram, 2016, on the wider relations between art and geopolitics) too, especially through Dada-inspired satire. Infiltrating the spaces of other state-sponsored weaponry and drone trade shows, Jill Gibbon’s various sketchbooks have given another perspective on the apparent informality of the drone and military arms industry. She characterizes not only the “fun” and excess discussed in relation to trade fairs, but also the politeness and hospitality where all is “light, clean and warm”. Gibbon’s self-declared window on the military-industrial complex, and notably the world’s largest arms show, the Defence Security Exhibition International (DSEI), uses sketched drawings in order to peer beneath what she describes as the “veneer of civility” that veils one of the most obvious of moments when drones and the arms trade become visible. Gibbon describes a particularly evocative scene of weaponry and canapés.

> Missiles glisten under spotlight [...] On every aisle there are plates of plums, grapes, nectarines, and chocolates. A string quintet plays Mozart on the back of a military truck. The arms trade is hiding in the light. (Gibbon, 2015:191).

### 3.3 Bodies, gender, sexuality

Finally, the levitator helps signal the highly gendered nature of other kinds of aerial bodies or subjects of levity. Whether real, fraudulent, imagined or inspired, women have been hooked away in the entanglement of beards, and lifted as the subject of a sexualized muse, the vehicle of another’s will or ambition. The sexed and gendered submission to levitation is a projection of ideas that have aligned women with hysteria, perversion and sexual fantasies.

Teresa is notable in that she is one of the few levitators to have written widely and influentially about her encounters. Many flights were said to be done unconsciously, while Teresa’s were a source of conscious embarrassment. Famously depicted in Bernini’s St Teresa in Ecstasy, Teresa is portrayed lying on a cloud, a suspended erotic/ecstatic moment. Levitation in this form is a kind of affective exhaustion, a giving up or burning up of the subject and their passions, to be unburdened by depletion. Teresa’s influential writings further emancipate her flights from anything to do with her own will. As she becomes ecstatic, she describes being pushed out and under the submission of another. However, just as her writings would be widely read, Teresa was also maligned by her many detractors as a delirious hysterical (Mazzoni, 1996). Pathologized in this way, her transverberation was regularly interpreted as a gendered symptom of hysteria or nymphomania.

If we move from Gibbon’s attention to the spaces of drone consumption to the levitator’s performance, we can bear in mind the context of late 19th and early 20th century female mediums. The most famous is probably Eusapia Palladino, whose levitations and séances (Fig. 1) would be exposed to the light of celebrity-following, as well as the sensitivities of scientific investigation. Palladino underwent experiments in Cambridge and Naples, as well as Paris, in front of witnesses such as Pierre and Marie Curie, Alfred Russel Wallace and the philosopher, Henry Sidgwick. Palladino, like many other female levitators, would be probably quite rightly accused of fraud, but as with Teresa, the taints on her abilities were commonly laced with the insinuation of sexual perversion. The darkness of the séance, and the intimate proximities of her body with others, alluded to a certain sexual frisson that bled into Palladino’s maligned public image and apparently the scientific observers.

This intimacy might appear to be as far away from the jocular masculinity the transcripts of drone pilots and sensors express in the darkened spaces of Creech Air Force Base, Nevada. However, the darkened and the aesthetic sexual insinuations of Palladino’s séance setting may trigger our attention to what Jasbir Puar (2007:xii) has demanded in her reconnection of the links between “torture, security, death [...]” themes usually imagined as devoid of connection to sexual politics in general and queer politics in particular. Indeed historians of technology have frequently alerted us to
how missiles, nuclear weaponry and even the systems that control them, reinforce particular masculine and heterosex-

ual norms (Cohn, 1984). The drone itself may be regarded as a manifestation of the way that the United States has

flexed its “military phallic muscle”, as Cristina Masters has iden-
tified, “from the physical male body and the re-inscription of male

subjectivity on/into military technologies” (2005:120). Un-

surprisingly but inexcusably, personnel within the US drone

program have referred to the Reaper and Predator drones

through nicknames such as “Sky Raider” and “Sky Raper”.

(Corbett, 2015). Of course this follows a wider tendency of

the military emasculation of its enemies through sexual vio-

lence.

As Gibbon reminds us about the spaces within which

drones are sold, the selling of the drone is also marked clearly

by sexual desire as well. She identifies the distinction of

suited male bodies and the hospitality of low-waged women,
serving drinks and canapés, baring cleavage and wearing

skirts that are too short. Gibbon’s approach, inspired by the

Berlin Dadaists, is an explicit rejection of the almost leviti-

tating “holy” view of art, a “floating”, “head-in-the-clouds”’

point of view that could barely perceive the violence of war.

Of course the Dadaists had levitated a pig-headed military

officer in a sculpture suspended from the ceiling in the Heart-

field and Schilchter designed Preussischer Erzengel (1920),

completed for the Great International Fair in Berlin. Instead

Gibbons inhabits and renders the bodies of the drone and the

arms trade through its elitist spaces.

How the drone is caught up in other kinds of projects of

femininity and masculinity is equally important, but remains

largely untold and to a greater extent invisible, despite the

realization of warfare with the gender politics of identity, ex-

clusion and sexualized violence. However, it may be that

the high public visibility of the drone – its sovereign and “sex-

ual exceptionalism” (Oswin, 2014) – tends to partition away

these questions to invisibility, as so often women are silenced

from stories of the deployment of drones, or are represented

as their unintended victims.

A joint report from the peace activist organizations Arti-

cle 36 and Reaching Critical Will (2014) on “Sex and

Drone Strikes” indicates problems in the very gendered na-

ture of drone targeting. The building up of “pattern of life”
signatures around an assumption of a “military-aged male”
equalling potential combatant, and innocent “female” being

automatically equated as civilian, is also seen in body and

casualty counts. For Laura Sjoberg (2014), this tends to cast

the “invisibility of men civilians” through a refusal to see

them as such. According to the report: assuming all military-

aged men to be “potential” or actual combatants or militants

entrenches a tendency to support “violent masculinities”.

Against this imagination, “a feminized and devalued notion

of peace as unattainable, unrealistic, passive and (it might

be said) undesirable”, is apparently pitched. Thus, whether

in the spaces of the drone’s making, or the way drones are

deployed against targets, the relations between bodies and

difference have tended to be obscured beneath the veneers

of body-count abstractions and the inaccessible spaces of the

drone economy.

4 Conclusions

This paper has shown that the mythical, magical and strange

figurations and spaces of the levitator do not provide the op-

portunity for easy comparison with the drone, even if they

resonate with the technological fetish with which drones are

frequently represented or purveyed. Instead, the paper has

shown how levitators reveal different aesthetic and surrealists

orders with which we can rethink the drone and its sites of

representation, circulation and academic investigation. Such

a “making strange” helps us to make the drone visible differ-

ently, and begin to reorder, unsettle and reposition the drone

within other relations, hierarchies and aesthetic sensibilities.

The paper excavated three different aesthetic registers that

levitators might enable us to bring to bear on drones. First,

the way we have told stories about levitators does not neces-

sarily emphasize a fidelity to the original event of levity as

drone geographers have increasingly sought to achieve, al-

though through multiple and messy perspectives that may also

speak to the ethos of decentring the drone as “fractional” that

this paper has sometimes traced. As we saw, investigators of

levitators attempted various forms of spirit photography and

ways to unmask fraudulent mediums. However, occasionally

holding back from the desire for ever-increasing fidelity to

drones, drone strikes and drone networks may help us re-

evaluate the drone as a more familiar kind of object and set

of practices when it is fetishized as myth, and ultimately may

more easily subject the drone to comparison and critique.

Second, certain registers of the levitator do not repress

the awe, fear or excitement of the drone’s fetish or non-human

flesh, but amplifies it even further. The theological and my-

thical fervour of the levitator and the excitable affects and pas-

sions that manifest levitation can help us distil various affec-

tive relations that also make the drone and drone industries

and may serve to upset them. Whether it is the excitement

and excess of the military expo or the irony of various tech-

niques to subvert the drone, or the lyrical inhuman agencies

Crandall finds in the workings of the drone, our various as-

sumptions about the drone can begin to be unsettled.

Third, the sexual politics of the levitator intersects these

affective relations, cutting across them differently. The lev-

itator’s exposure and suppression to a longing male gaze can

help open up analysis of the drone to perspectives more crit-

cal to the gendering and queering of drone geographies, as

well as the performance and imitation of violence, sexual or

otherwise, which have been so far patently invisible. Gen-

dered and sexualized bodies and identities have been largely
abstracted from current drone geographies by paying close attention to the abstractions, networks, bureaucracies and legalities – within which these relations are surely composed and reproduced – while overlooking the spaces where drones are sold or consumed.

Let me be clear, however, that I am aware of some of the dangers of these kinds of moves, nor do I want to suggest that such an analysis should undo or replace accounts of fidelity characterized through the paper, but rather to sit alongside them. As Benjamin Noys has recently warned, when we interrogate exaggerated “claims of God” tricks, and a wider metaphysical and theological inference of vertical omniscience (2015), the following is true:

The risk of engaging with this theological or metaphysical resonance seriously is that we treat the technological fetishism that can impinge on the thinking of drones. To treat drones as if they were the “travelling eye of God” to flatter this mundane and brutal surveillance and killing device. We may give a technological object, or technological assemblage, a philosophical dignity it does not deserve (2015:3).

As Noys puts it, it is “only by taking seriously this fetishism that we can sharpen our critical discourse, the better to resist the seductions of drones” (3). In answer, the paper has advanced an argument that tries to take this further in such a way that realizes the profit in understanding the drone as multiple and, thus with the possibility to be seen from alternative points of view. Not content to probe or test the fetishistic and mythological claims of drones, it has sought to hold far more true to their spirit. The possibilities of such a spirit can help us to advance a critique on the drone’s own terms in order to subvert its worlds and imagine new ones.

Beyond the drone and the levitator we should realize that the aesthetics, relations and hierarchies discussed in this paper are not so alien to our understandings of other aerial or aeromobile geographies either. Joseph Corn (1983) has already set the birth of aviation in the United States in the context of a messianic Christian belief of spiritual ascension mixed with frontier destiny. The sky was the new frontier of manifest destiny. Flight gave lift to a spiritual and technological imagination sent upwards. A moment of the miraculous, flight became a “holy cause” and the aeroplane a simultaneously technical and spiritual endeavour. Such an imagination of the occupation of the air through levity or ascendance, as we have seen is common, and finds much earlier expression in testimonies and stories of levitating figures, especially in the hagiographies of Catholic saints far before powered flight. These geographies deserve far more scrutiny, just as we may bring them into collision with contemporary geographies of the drone.

To pursue such a line of enquiry may require returning to another ethos, which avoids the sharp demarcations through which the levitator struggled to fit. Instead it may require turning to what Nicola Masciandrio (2013) describes as an “unknowing” of the divisions between disciplinary inquiry, science and rationality, with spirituality, myth and magic, to move towards a more medieval kind of thought where so many levitators were first given form.

Let us levitate the drone.

5 Data availability

This paper draws on research initially conducted at the Institute of Advanced Studies, Durham University, where I was a Light Fellow in 2014. The research is primarily textual and archival, and has not produced nor does it rely upon a publicively accessible data set.

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