Contemporary coastal cities have long been theorised through a distinctly terrestrial lens, in which the sea seemingly exists as a shadowy backdrop against everyday life in the city. Thinking with/from the sea invites us to trace the many ways that coastal waters work in co-shaping and remaking diverse urbanities, and ways of being urban(e). Drawing on recent planning approaches structured loosely around the concept of ‘Blue Urbanism’, our project considers how discourses around this notion offer a reference point for city planners, investors, and policymakers to connect previous risk-driven discourses of disaster preparedness to futuring practices. Such practices often embrace optimistic imaginaries that enliven visual, spatial, and cultural connections between cities and oceans, and further call upon strengthening integrated management approaches. Drawing on past work across three metropolises in Southeast Asia - Jakarta, Metro Manila, and Singapore - we plan to unpack some of the more vision-driven, utopic and dystopic assumptions around ‘blue urbanism(s)’ that are being witnessed across diverse high-density urban seacoasts, particularly in times of relative sea level change, salinisation, and land subsidence.

**Keywords:** Coastal transformation; urban ecologies; urban ecofutures; sea level change adaptation; Southeast Asia

https://youtu.be/Sa77uHgRs7Y
In the so-called Global South, densely populated urban shorelines are often depicted as veritable riskscapes, re-chiselled through cyclical narratives of exposure, ecological disaster, social marginality, and deepening precarity (Brown and Michael, 2003; Bakker et al., 2017; Octavianti and Charles, 2018). At the same time, coastal zones are being increasingly remade as interventionist spaces for hydro-engineering experimentation and as new profit frontiers, in which hybrid sciences and political acumen come together in responding to creeping sea level change compounded by extreme weather events, coastal erosion, salinization, liquefaction, and land subsidence (Boomgaard, 2007; Firman et al., 2011). These solutions suggest particular forms of adaptation envisioned, at times colonially embedded, through purely technical means (see Buleri and Chapman, 2010; Malm, 2013; Battacharyya, 2018). On the other hand, the avid fervour with which coastal land acquisition and privatisation projects are being rolled out across diverse neoliberal cities, from Mexico City to Lagos, Mumbai to Jakarta, present contradictory world-making visions of waterfront living through grand futuristic projects (Colven, 2017; Herbeck and Flitner, 2018). We might rather imagine these contemporary transformations as a “coast rush” (Siriwardane-de Zoysa, 2020) in ways that parallel any historic gold rush as a frontier practice, foreshadowing land privatisation, shoreline real estate development and gentrification, amid disconcerting socio-environmental uncertainty.

Intriguingly, against this paradox, what is also witnessed are the rationalities and enactments of architectural utopias and neo-libertarian political projects anticipating ‘amphibious’ and terra-aqueous forms of dwelling, for example, taking the form of floating micro-nation sovereignties and seasteads (Steinberg et al., 2012). Such visions advance particular sensibilities around idealised ways of urban living with incursive marine waters (Simpson, 2018), often pointing toward nascent desires in the offshoring of everyday life. What can then be said of these antipodal littoral place-making practices that rupture singular and conventional ways in which urban seacoasts are normatively imagined, materially remade, and socio-politically contested? Fluid, mutable urban shorelines also prompt us to reconsider manifold relations and socio-materialities of the metropolitan...
littoral, and the conventionalised notions that are believed to both connect and to separate what is often understood to be ‘land’, from ‘sea.’

Introduction: Blue-Grey Entanglements – From Coastal Cities to Oceanic Urbanities?

At first glance, contemporary imaginings of the city and the ocean sit antithetically to one another, particularly within certain modernist imaginaries. In contemporary sociological scholarship, land-sea interactions have often been relegated to the littoralism(s) of everyday life, particularly the rural-peripheral. Yet, as transcultural and decolonial writing on marine lifeworlds aptly illustrate, the conceptual elemental divide between dry(er) fixities and the cultural politics of land, against the seemingly apolitical, ahistoric liquidities of the sea (and the fluvial) in-motion hold little resonance in indigenous ways of knowing and being, and remains historically contingent (Sharp, 2002; Hau ‘ofa, 2008). With the exigencies of climate change, thematically, the urban and the marine barely exist as distant spaces, calling into question conventional representations of the ‘urban’ through its built form and multiple socio-material, symbolic, and digital assemblages (the ‘grey’), opposed to saltwater (‘deep blue’).

At the same time, littoral qualities of urban spaces have been in many ways naturalised. Historically, urban settlements flourished across deltaic and fluvial spaces, as centres of political power mediating access to the world and its insular hinterlands (Sutherland, 2007; Land, 2017). Island cities themselves were ‘islanded’ as hubs while at the same time being fortified militarily by altering waterscapes and metabolic flows. They often were politically insularised and territorialisised as imperial colonies and overseas territories, as spaces of quarantine, political exile, retreat, and in the contemporary neoliberal context, as tax havens, tourist and real estate utopias (see Baldacchino, 2005; Kothari and Wilkinson, 2010; Salazar, 2010; McMahon, 2016). The often-cited “maritime city” might stand as a tautology at times, making way for multiple brandings, ushering in diverse identities of the port city and ‘sailor towns’ now refashioned through glitzy waterfront redevelopment projects and megaprojects in land reclamation that have panned out for over a
century (see Cooper, 1987; Nas, 2005; Graf and Chua, 2009; Morita, 2016; Silver, 2018).

This unparalleled expansion of metropolitan waterfronts is now one of the most discernible encounters between city and the ocean, transforming coastal spaces into iconographies of world capitals and giving way to a very different sensory aesthetics of the built shoreline, in which water and skyline visually meld into a very distinct form of city identity-making, ‘fore-shored’ in the littoral. Images of floating cities, evinced by the turn towards amphibious architecture, still remain futuristic. Yet arguably, coastal cities have been making way for the reinvention of ‘oceanic cities’, much like the Singaporean artist Sean Lee’s dys-utopic images of a technologically hypermodern ‘blue’ Singapore (Lee, 2019) that is invariably underwater.

This “blueing” of cities (rather like their planned greening) is gaining increasing scholarly attention, invoking for example the notion of “conscious coastal cities” (Mega, 2016) and forays into blue-green urbanities (Assmuth et al., 2017). Timothy Beatley’s work Blue Urbanism (2014) and ‘blue biophilic cities’ (2018) are among the visible of these urban planning philosophies. Advancing on his formative work on “green urbanism” and how cities have a socio-ethical imperative to reduce their ecological footprint, Beatley (2014) argues that many of the world’s metropolitan benefits that have historically developed in deltaic and other coastal spaces have lost their social connection to the sea and the oceanic realm in their entirety.

What Beatley terms as “ocean blindness” is then offered a corrective in how ‘feelings of connectedness’ could be fostered by coastal cities, not just in the way of mitigating and adapting to changing sea levels and extreme weather events, but in reimagining the very paradigms of urban development and everyday life, together with their concomitant practices of production and consumption. These sensibilities appear as being unflinchingly utilitarian and resource-centric, drawing on the manifold socio-economic promises that the urban maritime offers, from advancing new recreational practices, tapping potential of renewable energy (i.e. tidal power, gas extraction), exploring alternatives to terrestrial surface in easing traffic congestion, to exploiting medicinal compounds, aquophonics, and “community-supported” fisheries. Beatley also calls for novel ways of being urban(e), a profound transformation of its citizenry into what he terms as the *homo aqua urbanis* – crosscutting most aspects of lived life from consumerism to political activism.

While we take little issue with the idealism behind this rallying call, we find the planning-oriented perspective and the flattening of transcultural differences in land-ocean imaginaries rather limiting. Yet, as a planning mantra, blue urbanism arguably remains a primarily Euro-American discourse on enculturing new sensibilities, mirroring the terrestrial quest for ‘green’ urbanisms (see Mega, 2016; Long and Rice, 2019). The planning visions barely address questions of unequal (spatial) access, particularly with regard to how socio-environmental change and strategic responses to the multiple crises of global urbanism is profoundly precipitating and reshaping privileged urban enclaves (Hodson and Marvin, 2010), further splintering cities into distinct binaries that distinguish the safe / secure from the toxic and hazardous, the overdeveloped from the underserviced, elite
cosmopolitanisms from the historically marginalised.

Written partially as a photographic essay, we question some of the more vision-driven, utopic assumptions around blue urbanism(s) as a rallying cry for urban planners, architects, policy technocrats and investors alike, especially putting into question their strong focus on the agency of city governments and their relative neglect of spaces of informality and everyday experimentation in the un/remaking of diverse urbanities. To further problematise antithetical sensibilities around ‘blue urbanity’, we focus on three distinct and interrelated tropes that undergird this notion, blue urbanism(s) as: taskscapes of socio-ecological change and consumption; b) speculative futuring in the making of city identities and by extension urban/e citizens; c) producing a littoral-multiple across increasingly socially uneven and splintering cities. In doing so, we draw from diverse and at times antipodal spaces across three socio-culturally and historically distinct archipelagic metropolises – Metro Manila, Jakarta and Singapore.

Blue Urbanisms as Taskscapes: Reconfiguring Risk and Opportunity of Sea Level Change Adaptation

Images of relative sea level change compounded by the effects of land subsidence are invariably dystopic and more often hackneyed in their representations – flooded streetscapes, submerged islands, sinking cities, and the like. Yet, these imaginaries barely reveal the antipodal trends and contradictions between risk-centred protective (and reactive) paradigms and solutions for SLR adaptation on the one hand, and opportunity-driven dynamics for capitalising and incentivising particular solutions over others.

At the same time, the binary logic of framing dynamics of change as either articulations of risk or opportunism in their entirety bears the risk of negating less visible and complex webs of vested socio-economic and political interests (crosscutting local, regional, and global scales), that are profoundly shaping why particular adaptive solutions are ultimately prioritised, reconfigured, and implemented over others.

In megacities such as Jakarta and Manila, hotspots of socio-environmental risk have often been identified in spaces cohabited by its urban poor, so that
respective riskscapes remain sites of intervention for techno-scientific solutions (see Simarmata, 2018). Considering risky hotspots as merely ‘sites of intervention’ masks the fluid dynamism of how these sites are cyclically reproduced, first as riskscapes that are progressively de-civilianised, often in the name of fortifying coastal margins and edges through protective infrastructure and buffer-zonal regulations. Dyking and other forms of sea wall building create lively and conflict-ridden taskscapes of nature, place, and dwelling, to invoke Ingold’s (1993) notion. Land behind these bulwarks continue to be remade as new forms of grounded space, amendable to land speculation and real estate development (see Siriwardane-de Zoysa, 2020). Incursive waters are enlivened in reshaping the coastline and by extension, the refashioning of ‘new’ spaces of dwelling and consumption in the ‘Waterfront City.’ Jakarta’s Waduk Pluit and Metro Manila’s southern reaches of its Bay bear echoes of these aspirational futures.

While taskscapes cyclically transform marginalised riskscapes into speculative real estate opportunities, overtime, they offer ways of collectively forgetting (Lee and Yeoh, 2004). Like Manila and Jakarta’s urban aquaculture expansion in the 70s and 80s, older histories of informal settlements, the ‘soft’ marshy historicity of living with daily tidal fluxes, monsoonal flooding, and plebeian sea-related livelihoods such as small-scale fishing, net repairing, ice manufacturing, and ferrying are now deemed irrelevant (at times illicit), to the workings of the dredged, fortified gentrified metropolitan waterfront. Moreover, they may fashion new aesthetics of seeing and being in the hypermodern metropolis in which the ‘magic of water’ (see Corbin, 1988) folds over starchitect-designed grey and glassed skylines. It is almost as if urban saltwater offers itself as a reflective surface to the aspirational dreamscapes of the oceanic city, as it gazes both landwards and outwards towards a neon-specked sea.
Blue Urbanism as Speculative Futuring: Between the Utopic and the Dystopic

One of the most revealing rationalities of Blue Urbanism, as a planning rationale, is in capacity for refashioning the identities of coastal cities and in changing the ways the cities are ‘futured’, at times as adaptive utopias of social experimentation and change, taking for example Singapore (Schneider-Mayerson, 2017), or as socio-spatial frontiers of impending submergence and loss, to invoke northern Jakarta for example (Wade, 2019).

We propose to understand those trends as a new mode of ‘speculative futuring.’ In doing so, the term ‘speculation’ is used in two interrelated ways:

i. The Imaginative-Speculative – as encompassing the experimental and fantastical when considering urban built form, drawing on how city spaces have been nationally and regionally iconised – from skyline to waterfront. In this context, topical research in sensory urbanism, moral and cultural geographies of place making, emotion and affect (see Low, 2015; Low, 2017) investigates how multimodal representations of our protective / terra-aqueous practices come to be diversely imagined, designed, and materialised in ways that they appear as ‘universal’ catch-alls for meeting diverse urban needs;

ii. The Capitalised-Speculative – this second conceptualisation captures ideas within contexts of investment and venture capital in which the dynamics of risk and profit meld. It is witnessed in is/land prospecting deals for costly dredged and reclaimed spaces against more ‘cautionary’ practices such as coastal divestment, or in relocating communities, and the de-urbanising of shores and off-shored infrastructural capital.

In face of this binary logic of speculation, the attraction of urban policy makers to terms like Blue

Picnic area, Pulau Kusu (Singapore). The pilgrimage island has been continuously developed into a tourist site over the past years. Breakwaters protect it from the strong currents and waves of the Singapore Strait. Photo: Johannes Herbeck, 2017©
Urbanism is not surprising. They offer ways of opening up discursive spaces within and beyond city governments confronted with massive projected changes of the connections between urbanised spaces on the coastal fringes and (coastal) waters that they face. At the same time, the term remains easily connectable to the large-scale coastal development many of those cities in Southeast Asia are currently debating and implementing. Such projects are often deeply entrenched in local path dependencies and (post)colonial histories of evaluating and transforming the coast (see D’Souza, 2006; Silver, 2007).

Singapore’s Greater Southern Waterfront offers a case in point, in which the materialities of its urban port were rebuilt over, in some ways created ‘anew’ as a leisure site of public access, a neoliberal and tourist spectacle. This goes hand in hand with endorsing a particular way of being / becoming a littoral citizen, patterned by consumption-led presence and appeal. With the exception of a few privately-owned spaces on a 99-year lease, for example its ultra-luxury housing estate Sentosa Cove (Wong, 2006; Pow, 2011), much of Singapore’s coastal land is state-owned. As a financial powerhouse and techno-scientific knowledge hub that in turn ‘exports’ its high-density urban living and political-administrative experiments as models for emulation across the Southeast Asian region and beyond, the example of the island nation-state shows how distinct geo-engineering rationalities continue to remake vulnerable urban seacoasts in distinct ways, while visually aestheticizing littoral space as a parallel project.

The Southeast Asian coastal condominium building boom, from Penang to Metro Manila, bear witness to high-rise architectural and landscaping sensibilities that allude to those in Singapore, which in turn appear markedly diverse given the neoliberal interplay of developers, starchitects, and ever-changing design innovations. Yet, the extent to which these “Little Singapores” have been further hybridised
within local cultural contexts remains an intriguing question, particularly when considering for whom such spaces were erased and remade, however precarious these projects may seem in the long-run due to environmental uncertainty.

**Blue Urbanism(s) as Littoral-Multiple**

One of the more telling blindspots inherent in a planning mantra such as Blue Urbanism is the fact that it widely neglects that urban shorelines around the world exist as polarised spaces. As a third analytical category, we turn to the notion of the *littoral-multiple*, in order to evoke manifold ways which coastal spaces are imaginatively framed, materialised, and dwelt in. Urban coasts may act as nodal spaces facilitating flows and connections, but also as sites of precarity and uncertainty or conversely, as places of entrenched power, enchantment, and of excess consumption.

What then remains discursively enduring about the sub/urban seacoasts are its antipodal materialities and symbolic representations of the desired and the reviled, the utopic and the dystopic. At first glance, built urban coasts – in whatever form – reveal the workings of the “dual city,” taking for example Jakarta’s disjuncture between older and newer harbour spaces (Nas, 2005: 32). The politics of spatial utilisation, zoning, and consumption have often been emphasised in recent scholarship, as the rejuvenation of waterfronts require considerable public and/or private investment. Once transformed through private capital or public-private partnership projects (PPPs), coastal spaces assume an exclusionary identity, often frequented by a small elite.

The enduring presence of what could be called the unequal coast/shore reveals striking forms of fragmentation (see Gidel, 2011) and of juxtaposition, in which sites have either been marked as spaces of exclusionary presence on the one hand, and as sites of squalor, danger, and uncertainty on the other. In this context, Setha Low’s framing of body/space/culture

---

*Edging space.* What makes a margin, land or sea – as evidenced in this condo development project in northern Jakarta. Photo: R. Siriwardane ©
(2017: 95) calls to consider a more expansive emotional and relational geography of intermixed imaginaries and practices that recirculate. The urban littoral exists relationally, materially, and symbolically as space that is beyond fixed locations (e.g. beaches, harbours), and continues to forge connections to places such as tidal flats, mangrove swamps, and seagrass beds, as much as its built form comprising coastal construction sites, ‘floating slums’, gated resorts, and condominiums.

In a similar vein, it can be argued that the dualism between the land and the sea does not always hold to closer scrutiny. Mutable definitions of a “coast,” through whose disciplinary and tacit knowledges, and in which historic and contemporary moments, remain a circuitous debate. The shifting interfacial boundaries between sea and land render the littoral an air of neutrality for it is “neither properly terrestrial nor yet thoroughly maritime, awaiting a metaphoric role” (Mack, 2011: 165). Antithetical elemental imaginaries of what separates land from water and how have diversely been perceived across cultures (see Sharp, 2002; Bhattacharyya, 2018). The “urban amphibious” (Land, 2017) offers to be taken as a useful yet knotting starting point in delineating a number of oppositional urban planning, geo-engineering, and other terra-forming practices in keeping incursive waters out, or living with water.

Seemingly antithetical to protective solutions such as diking (in order to keep water out), interrelated rationales of extending land outwards or in creating grounded sites from surrounding sea space are historically located (Charlier et al., 2005), but are not as contradictory to protective solutions as they may

Dwelling along littoral margins. The phenomenon of “sea slum-ming” was occasionally referred to by urban development agencies in Metro Manila. Meanings of squatting and illicit access and ownership were perceivably transferred to coastal space, particularly where informal housing was cleared to build dikes and embankments. Residents continued to build beyond the wall. Photo: R. Siriwarde ©
appear. Practices such as dredging and land reclamation are just as (paradigimatically) terrestrially-derived (Jenson, 2017), but their form, function, and rationalities for change adaptation seem far more appealing for some than protective infrastructure, and are often purported as being more ‘innovative’ and futuristic.

While the interest in amphibious lifeworlds and building practices (Morita, 2016; Land, 2017) has been increasing, we intentionally use “terra- aqueous” in order to illustrate the hybridity between the marine and the terrestrial, the fluid and the grounded, land that is lost and space that is (re-)claimed or built anew.

The politics of near and foreshore reclamation have often privileged formal projects, with lesser attention being paid to what we refer to as “small acts” of adaptationism, at household and community levels. For example, uruk, as a form of nimbus or self-reclamation (in Bahasa Indonesia) has long stood as a means with which to “ground” intertidal coastal spaces with flat material including shards of wood, sand, shells, plastic, and other construction debris on which low-impact buildings are erected.

We understand such strategies as parts of a “vernacularizations” of coastal (re)development and adaptation, i.e. the contradiction between the fixity and efficacy of centralised technology-driven coastal development projects, and their actual effects on the everyday life of ’ordinary’ people (see Perkins and Rumford, 2013). This contradiction also comprises grassroots strategies of transforming and extending coastal lands, partly to also deal with adverse changes of coastal environments (for example, tidal flooding and subsidence) that are taken on individual or collective levels (see Batubara et al., 2018). Could we
then be left asking whether in face of such strategies, Blue Urbanism holds much sway if at all, given its emphasis on the agency and strategies of cities and city governments. We argue that in its actual conceptualisation, the term tends to overlook the manifold complex entanglements of the everyday, “vernacularized” making of coastal spaces that can be observed across Southeast Asia’s urban archipelagic shores.

Concluding remarks

Our critique of Blue Urbanism rests in its likelihood of being taken as a centralised planning strategy, leaving little room for engaging with the everyday practices of insurgent and other forms of informal, small-scale protection and adaptation. We arguably find the planning perspective and the flattening of socio-cultural differentiation in land-ocean urban imaginaries to be rather limiting. Starting from our own observations of the multiple forms in which coastal spaces in the three coastal megacities Jakarta, Singapore, and Manila are remade and over-formed by multiple actors, we ask for widened perspectives on the agency and everyday action that impact spatial transformation. We have argued that urban coasts, beyond being vulnerable sites of intervention in face of changing sea levels, are increasingly regarded by city managers as potential elements of globalised city branding initiatives, thereby being transferred into sites of speculation – both with regard to experimental, vision-driven transformations and representations of a hyper-modern ‘blue’ metropolis, as well as with regard to an economic, neo-liberal logic of valorisation of coastal spaces.

Further, we have seen that it is not only the centralised, technocratic projects of waterfront development that determine whether and how coastal cities embrace their coastal environment and find ways of living with the marine waters that they face.
Moreover, socially unequal coasts (or the littoral multiple) sees highly contrasting processes of appropriation unfolding simultaneously, from the construction of privatised gated communities, to everyday activities such as *nim but* and other practices of informal land reclamation across so-called wastelands and squatter settlements in former harbour areas. Blue urbanism’s current focus rests on inspiring and empowering urban governments as the main actors that should drive the re-establishing of the lost connectivity between the urban and the sea. A more inclusive agenda will have to acknowledge the multiplicity of actors that have also had their land-sea connections “lost” through changes in livelihoods, and over generations of shored urban living the metropolitan littoral took on ambivalent meanings of both public space and exclusive access. Further work on blue urbanism will have to allow for global differences and a multiplicity of being urban(e) in coastal cities, also and especially in cities of the global South.

Notes

1 Corresponding author, rapti.siriwardane@leibniz-zmt.de

References


Both ENDS, TNI.


Powell M A (2020) Singapore’s Lost Coast: Land Reclamation, National Development and the Erasure of Human and Ecological


Rapti Siriwardane-de Zoysa is a marine social scientist at the Leibniz Centre for Tropical Marine Research (ZMT), Germany. She holds a D.Phil in Development Anthropology from the University of Bonn. As a postdoctoral member of ZMT’s Development and Knowledge Sociology working group, she scientifically co-ordinates a German Science Foundation funded research project (EMERSA), within which her ethnographic work on the cultural politics of urban seacoasts in archipelagic Southeast Asia broadly rests.

rapti.siriwardane@leibniz-zmt.de

Johannes Herbeck studied geography, political science and sociology in Munich. Since 2008, he is a researcher at the Sustainability Research Centre University of Bremen and works as lecturer at the Department of Geography, University of Bremen. His research interests include coastal adaptation policies and technologies, policy mobilities, and political ecology. In 2014, he defended his PhD thesis entitled “Geographies of climate change: vulnerability, security and translocality”. Since then, he has worked as scientific coordinator and researcher in different projects.

johannes.herbeck@uni-bremen.de