

'Bio-cultural heritage' (BCH) can be understood as the biological manifestations of culture found in domesticated landscapes resulting from long-term biological and social relationships. It emerges from ecological niches created directly or indirectly as we transform our environment for agriculture, industry, and infrastructure.

New science and interdisciplinary approaches are reshaping how we understand ecosystems structures, function, and processes, highlighting the interconnectedness between them and our built environment. The challenges brought about by the climate crisis are forcing us to revisit and ultimately revalue these bio-cultural links. Compelling us to adopt a generative and reproductive interdependency with our ecosystem.

In 'Bio-Cultural', we will propose Bio-Cultural Architecture. Devices which generate the ecosystems of tomorrow and strengthen our interdependence. Spatial interventions designed to produce a measurable interaction between our ecosystem and our built environment. Architectural objects imagined for multi-species inhabitation.

We will design how they perform, how they are inhabited by humans and non-humans. We will explore them as artifacts for nurturing companion species relationships and entanglements. Finally, we will speculate on the outcome of our Bio-cultural architecture, by simulating how they decay and leave traces overtime.

Previous page: Image of photograph by Gilles Clement.
Right: Empire Anthropocene landscape detonator, by Feifei Zhou (Feral Atlas).





<u>Introduction - What is bio-cultural heritage and why does it matter?</u>

Bio-Cultural will introduce students to the notions of bio-cultural heritage and explore its relationship to the built environment and landscapes which surround us. We will navigate Feral Atlas's Anthropocene landscape detonators as the state-of-the-art in mapping how infrastructures and ecosystems merge in unexpected ways. We will explore how to go beyond human exceptionalism and explore ways of thinking towards a multi-species attentiveness. Together, we will reflect on how to actively integrate these notions into architectural and spatial thinking.

Group research:

As a group we will identify and record instances of bio-cultural heritage. Through hyper local field work and online research we will collect maps, images and sound. We will explore a more-than-human attentiveness and multi-species relationships in the selected site. Our group research will be compiled into a video atlas of bio-cultural manifestations.

<u>First proposal – the building blocks of Bio-Cultural Architecture:</u>

Drawing from the group research, each student will propose a bio-cultural architectural object made up of 1 to 2 main building blocks/components with which to enhance a bio-cultural relationship. The scale is up to the student.

Previous page: Image of photograph by Gilles Clement. Right: Dry stone sections of the Frojám enclosure. Photographs by Joám Evans Pim).





Bio-Cultural Architecture: Design, simulate, speculate:

Each student will propose, construct, and explore their own Bio-Cultural Architectural object in digital space. Using 3D simulations tools and sound effectors, we will model and animate not only how your proposal looks but also how it operates and eventually decays.

Finally, you will speculate how your object produces a 'biological manifestation of culture' or an interconnection between the built environment and ecology.

Each student will produce a video loop showcasing their Bio-Cultural Architecture.

Group outcome:

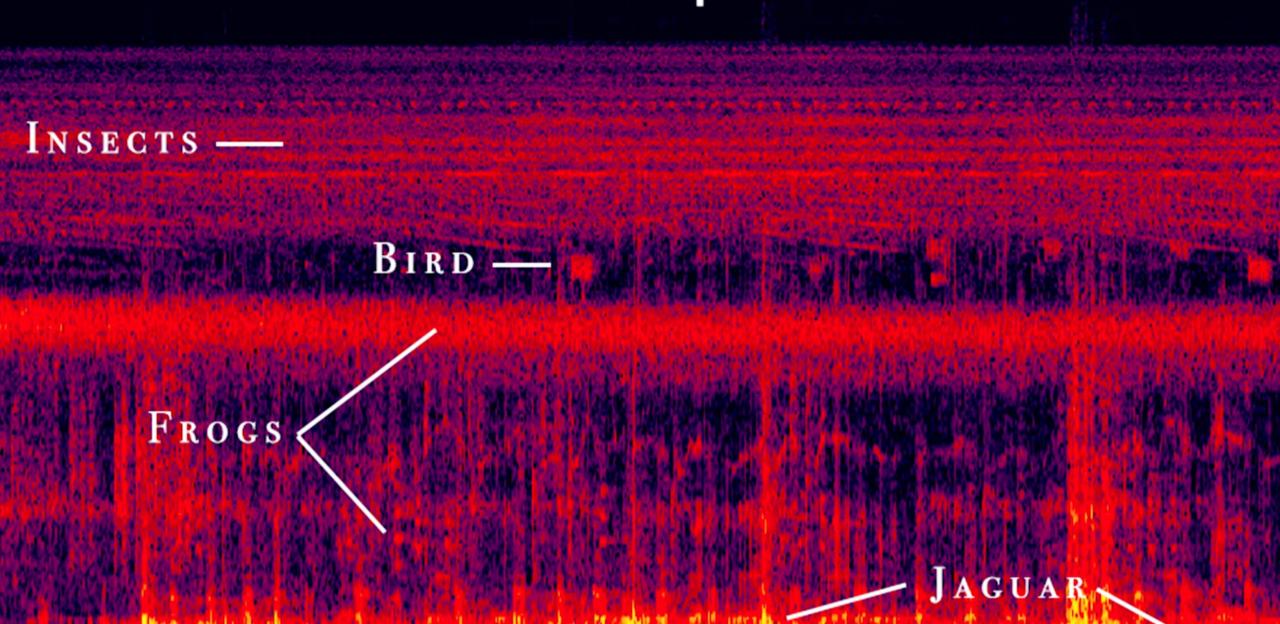
As a group we will create an interactive digital landscape of Bio-Cultural Architecture and produce a short film journeying through it.

Previous page: Image of photograph by Gilles Clement. Right: 'Slow Down Please' by Marlene Huissoud, 2019.

Next page: 'The Great Animal Orchestra' by Bernie Krause, 2016.



Km 41 Amazon



Requirements:

Software:

Maxxon Cinema 4D
Adobe Premier Pro
Adobe After Effects
Adobe Media Encoder
Corona render for Cinema 4D
(good to haves: Rhino, Photoshop, Adobe Audition)

Hardware:

A computer/laptop
A camera (any camera capable of images and video)
A sound recorder (anything from an iPhone to a pro-equipment will do)

Inspiration:

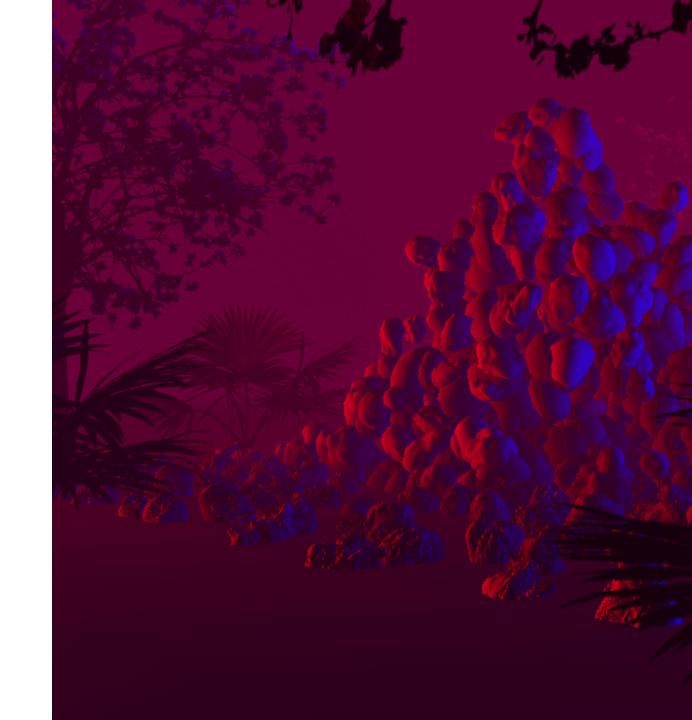
https://feralatlas.org/

http://danimetcalfe.com/

https://www.marlene-huissoud.com/

https://www.fondationcartier.com/en/exhibitions/le-grand-orchestre-des-animaux

Feifei Zhou, Sa(I)vaging the forest https://www.feifeizhou.com/sa-l-vaging-the-forest



Resources:

Bio-diversity

The Atlas of Living Australia https://spatial.ala.org.au

The Atlas of Living Australia (ALA) is a collaborative, digital, open infrastructure that pulls together Australian biodiversity data from multiple sources, making it accessible and reusable. The ALA helps to create a more detailed picture of Australia's biodiversity for scientists, policy makers, environmental planners and land managers, industry and the general public, and enables them to work more efficiently.

Victorian Bio-diversity Atlas https://vba.dse.vic.gov.au/vba/index.jsp

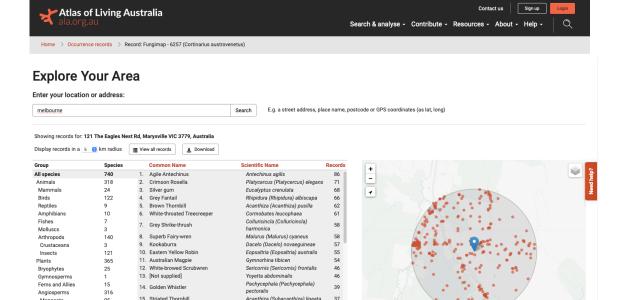
The Victorian Biodiversity Atlas (VBA) is the collated information of flora and fauna sightings across Victoria.

Sounds

Australian Wildlife Sound Recording Group https://awsrg.bandcamp.com

Cornell's Macaulay Library archive https://www.macaulaylibrary.org

xeno-canto. Sharing bird sounds from around the world https://www.xeno-canto.org/explore/region



Pteridium esculentum

carunculata

Viola hederacea

Anthochaera (Anthochaera)

Psophodes (Psophodes) olivaceus

Manehu

17 Red wattlebird

18. Eastern Whipbird

19. [Not supplied]

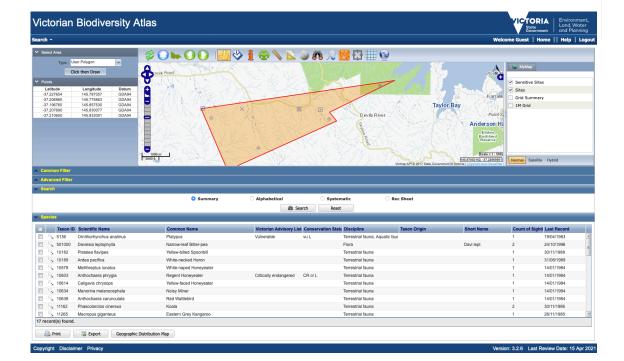
Dicots

Chromista

Protozoa

Bacteria

Fungi



Victorian Biodiversity Atlas, Species Summary List (Date: 14/06/2021 11:58 AM)



Selected Area

Type: User Polygon Value: POLYGON ((145.521427 -37.71344,145.519155 -37.721317,145.525855 -37.724506,145.533952 -37.723577,145.538668 -37.7114

Common Filter

Scientific Name : VBA Taxon ID: Conservation Status: Taxon Level : Species Taxon Type: Other Agency Codes: Discipline: Date Since : Date To:

Last Review Date:15 Apr 2021

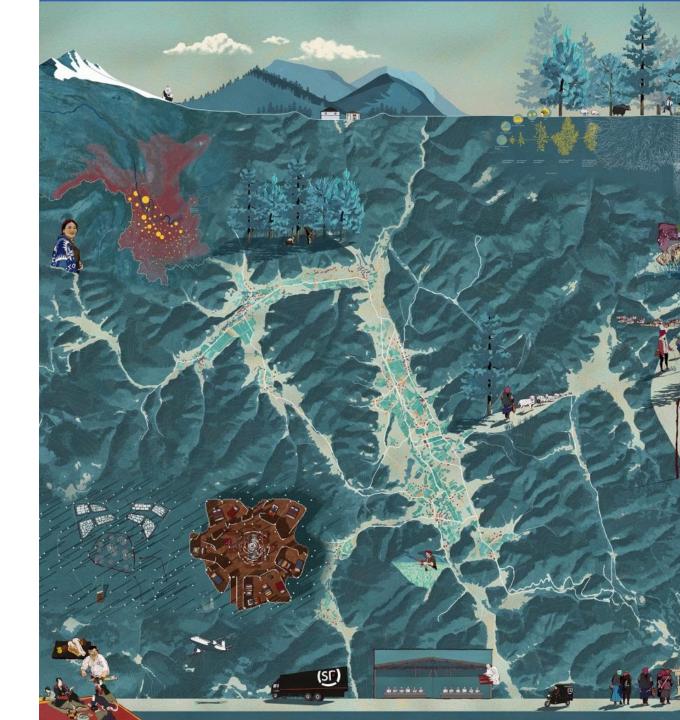
Scientific Name	Common Name	Status
Poales		
Juncaceae		
Juncus acutus subsp. acutus	Spiny Rush	*
Myrtales		
Myrtaceae		
Eucalyptus baxteri s.s.	Brown Stringybark	
Asterales		
Asteraceae		
Senecio jacobaea	Ragwort	*
Cirsium vulgare	Spear Thistle	*
Rosales		
Rosaceae		
Rubus fruticosus spp. agg.	Blackberry	*
Falconiformes		
Accipitridae		
Aquila audax	Wedge-tailed Eagle	
Falconidae		
Falco berigora	Brown Falcon	
Falco peregrinus	Peregrine Falcon	
Passeriformes		
Petroicidae		
Eopsaltria australis	Eastern Yellow Robin	
Petroica boodang	Scarlet Robin	
Pardalotidae		
Acanthiza lineata	Striated Thornbill	
Acanthiza pusilla	Brown Thornbill	
Sericornis frontalis	White-browed Scrubwren	

	Acanthiza chrysorrhoa	Yellow-rumped Thornbill
		Spotted Pardalote
Passeri	Pardalotus punctatus	Spotted i ardaiote
	1.81	
	yycephalidae	
	Pachycephala rufiventris	Rufous Whistler Grey Shrike-thrush
	Colluricincla harmonica	
	Pachycephala pectoralis	Golden Whistler
	uridae	
	Grallina cyanoleuca	Magpie-lark Magpie-lark
	Rhipidura albiscapa	Grey Fantail
	Rhipidura leucophrys	Willie Wagtail
	Rhipidura rufifrons	Rufous Fantail
	acillidae	
	Anthus australis	Australian Pipit
Clim	acteridae	
	Cormobates leucophaea	White-throated Treecreeper
Mus	cicapidae	
	Turdus merula	Common Blackbird *
Cam	pephagidae	
	Coracina novaehollandiae	Black-faced Cuckoo-shrike
Zost	eropidae	
	Zosterops lateralis	Silvereye
	nidae	•
	Acridotheres tristis	Common Myna *
	Sturnus vulgaris	Common Starling *
	ndinidae	· · · · · ·
	Hirundo neoxena	Welcome Swallow
Melipha		Traconic Stratost
	phagidae	
	pnagiciae Manorina melanophrys	Bell Miner
	Manorina melanocephala	Noisy Miner
	Melithreptus lunatus	White-naped Honeyeater
	Acanthorhynchus tenuirostris	Eastern Spinebill
	Caligavis chrysops	Yellow-faced Honeyeater
	Anthochaera carunculata	Red Wattlebird
	Phylidonyris novaehollandiae	New Holland Honeyeater
	Nesoptilotis leucotis	White-eared Honeyeater
	ridae	
		Superb Fairy-wren
	Malurus cyaneus	Super or raily with
		Superbrainy witch
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Right: Sa(I)vaging the forest by Feifei Zhou.



Stefan Laxness:

Stefan Laxness is a London based architectural researcher, artist and former project leader at the Forensic Architecture (FA). At FA he led numerous projects, including the Ayotzinapa Case, developed methodologies for analysing airstrikes in the Middle East and modelling sites of human rights abuse from witness testimony. Stefan is the co-founder of Pantopia.xyz an online educational platform for spatial thinkers. His creative practice explores the consequences and opportunities brought about by the climate crisis regarding how we inhabit and engage with our built environment. Recently he has focused on environmental restoration as a collective process of resistance. His work has been exhibited internationally (Werkleitz, 2021; Ars Electronica, 2020; LABoral, 2020; Antarctic Pavilion, 2017). Stefan teaches at the Architectural Association in London, where he is a studio master of Diploma 9. and has previously worked in architectural practices in London and Paris. He holds an AA Diploma from the Architectural Association School of Architecture in London.

Pablo DeSoto:

Pablo DeSoto is an experimental architect and multidisciplinary artist with long-term experience in working with diverse communities across geographical and disciplinary borders. He holds a Master's Degree in Architecture from the Royal Institute of Technology of Stockholm and a Ph.D. in Communication & Culture from the Federal University of Rio de Janeiro. In the early 2000s, he was a co-founder of hackitectura.net, a group of architects, computer specialists, and activists, who pioneered a wide range of experimental projects on emancipatory uses of hardware, software, and the internet on public space and territory. His research uses fieldwork, radical cartography, and critical epistemologies to produce spatial knowledge and investigate the urgent political and environmental conditions of our time. He has been awarded NTNU ARTEC AiR, BCN Hangar/Tokyo Wonder Site artist in residence, LAB_Cyberspaces, UBA Elinor Ostrom, among others. He is the editor of three books and coauthor of the Critical Cartography of the Straits of Gibraltar. He is currently Visiting Professor at the Federal University of Paraíba Postgraduate Department of Architecture & Urbanism, Brazil. His website: http:// pablodesoto.org.



