

On-campus, online and off the beaten track

Virtualised Research Centres and Polysynchronous Learning

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Head of Learning Environments and Innovation



Cairns
Singapore
Townsville

JCU Campus Overview

- Developing an integrated experience for online and on-campus learners
- Enabling access to the research stations and observatories
- Media strategies from desktop video to mini-documentaries and into the world of mixed reality



JAMES COOK UNIVERSITY



1 University



4698 Staff (2067 FTE)



2 Countries



230 courses / 2200 subjects



3 Tropical Locations



Innovative Research University



21,927 students



Graduate Job success (2011-17)

Achievements



Rankings

In the top 300 universities (2016 Academic Ranking of World Universities)

Ranked 1st in the world for Marine and Freshwater biology, and 2nd in the world for biodiversity conservation in the Centre for World University Rankings 2017 subject rankings.

The highest cited institution in the world for coral reef science (Scopus, 2011-2015).

In the top 300 universities in the 2016-2017 Times Higher Education World University Rankings, and ranked 95th in the world for the Life Sciences.

Ranked 2nd in Australia and equal 15th in the world (tied with Princeton University) for environment/ecology in the US News & Global Report – Best Global Universities Ranking 2017.

Other

JCU awarded 5 stars for "graduates getting a full time job"
(Source: The Good Universities Guide 2011, 2012, 2013, 2014, 2015, 2016, 2017)

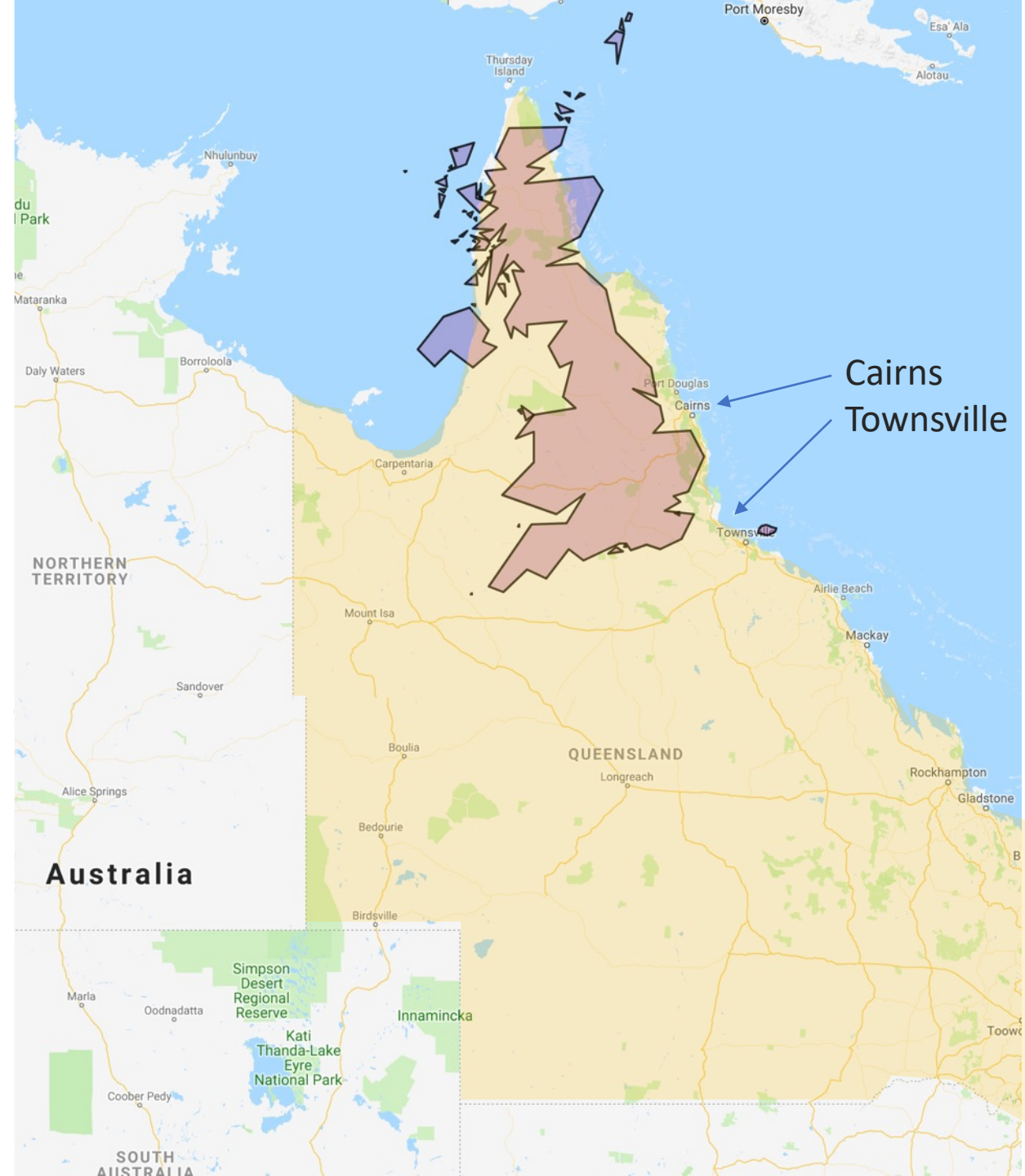
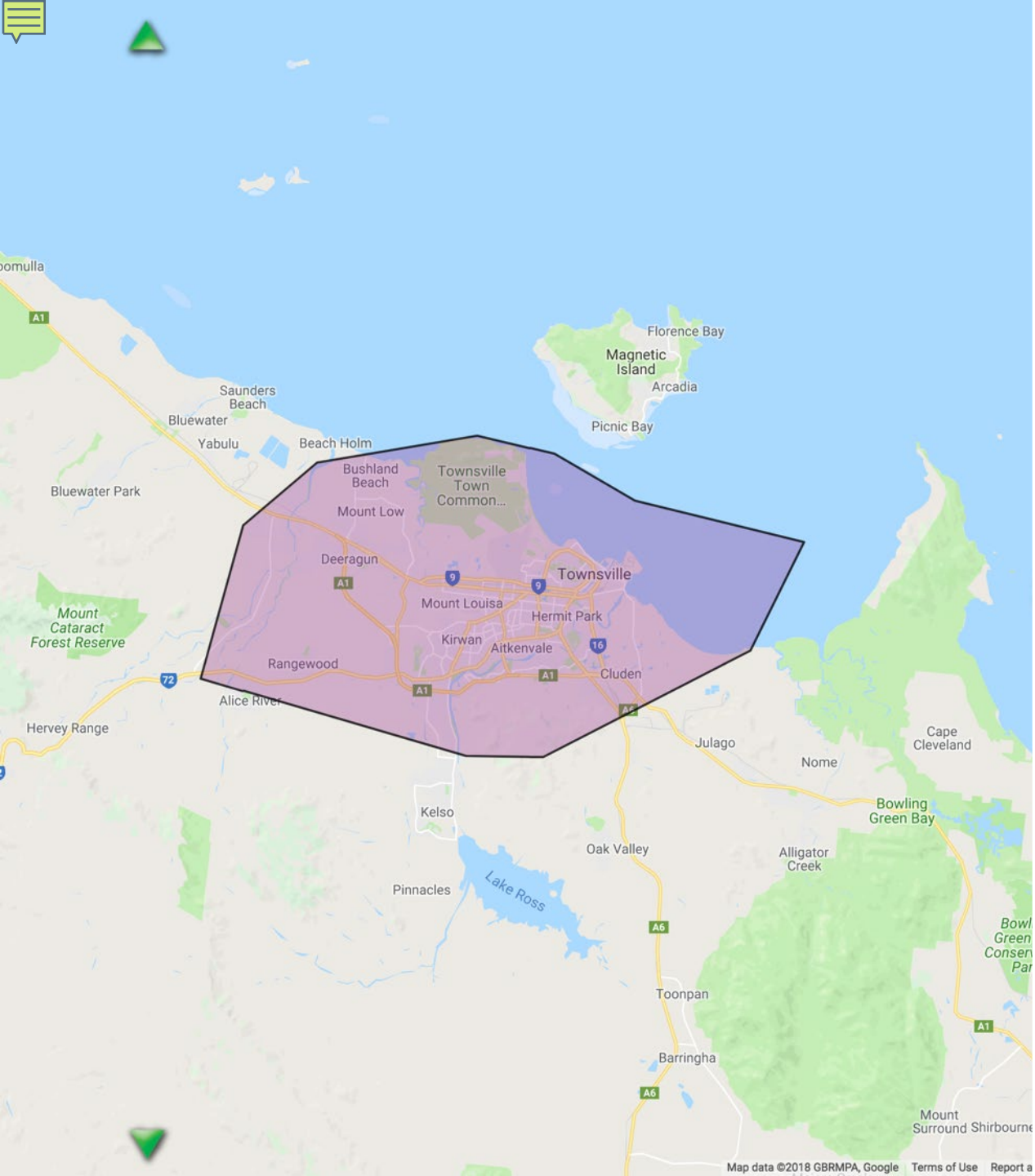
Opportunity

Beginning of a new
5yr University and
Academic Plan

Our Challenges

- Changing expectations of universities
- Digital Technologies
- Globalisation
- Competition





Townsville

Since 2009 JCU has invested \$446m in completed and planned building projects in Townsville, an increase of \$105.3m since 2012



The Verandah walkway

Biology and Chemistry Superlabs



Cairns

Since 2009 JCU has invested \$205m in completed and planned building projects in Cairns, an increase of \$68.5m since 2012



JCUAITHM

Student
Accommodation



Singapore

Established 2003
Fully accredited in
Singapore

Business, IT, Psychology
Education, Accounting
Arts, Aquaculture
Environmental Science
Games Design, Tourism
And Hospitality





Study centres

Also 4 other study centres in Brisbane, Mackay, Mt Isa and on Thursday Island





- **Developing an integrated experience for fully online and on-campus learners**

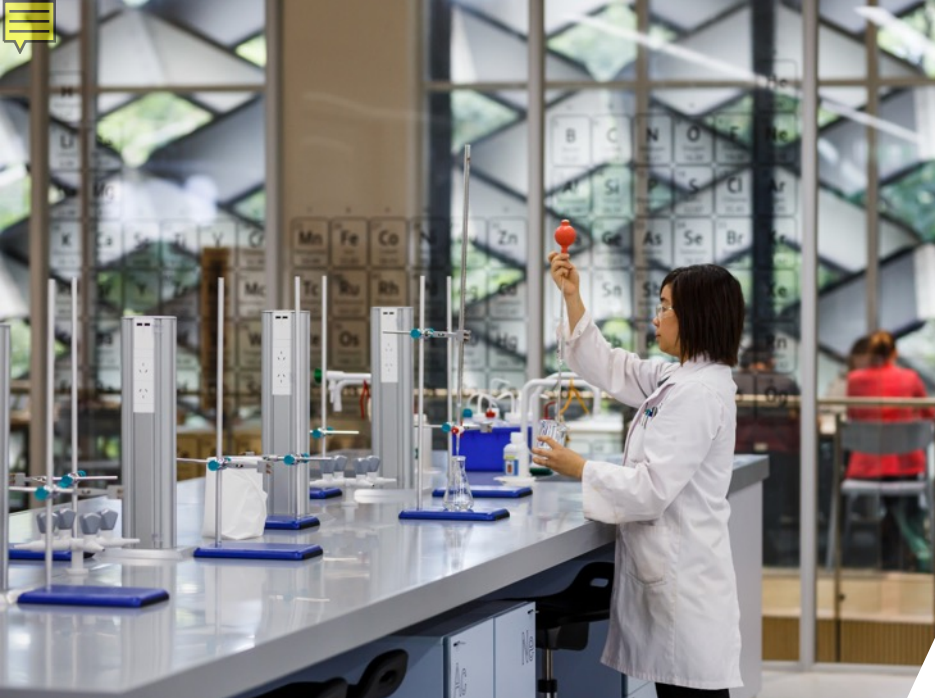
ATTENDANCE MODES

INTERNAL (on campus, f2f) - Subjects offered via internal mode **require regular attendance at classes** and *may* involve up to 30% online delivery.

EXTERNAL (online) - Subjects offered via online mode **require no on-campus attendance**. Study is facilitated wholly through LEARNJCU and *may* involve scheduled online sessions (e.g. via Blackboard Collaborate).

INTENSIVE - Subjects offered require attendance at classes conducted via block teaching sessions and can be on or off campus (typically on consecutive days, week, nights).

PLACEMENT - Subjects require attendance at an external organisation for work experience/practicum/clinical placement under supervision.









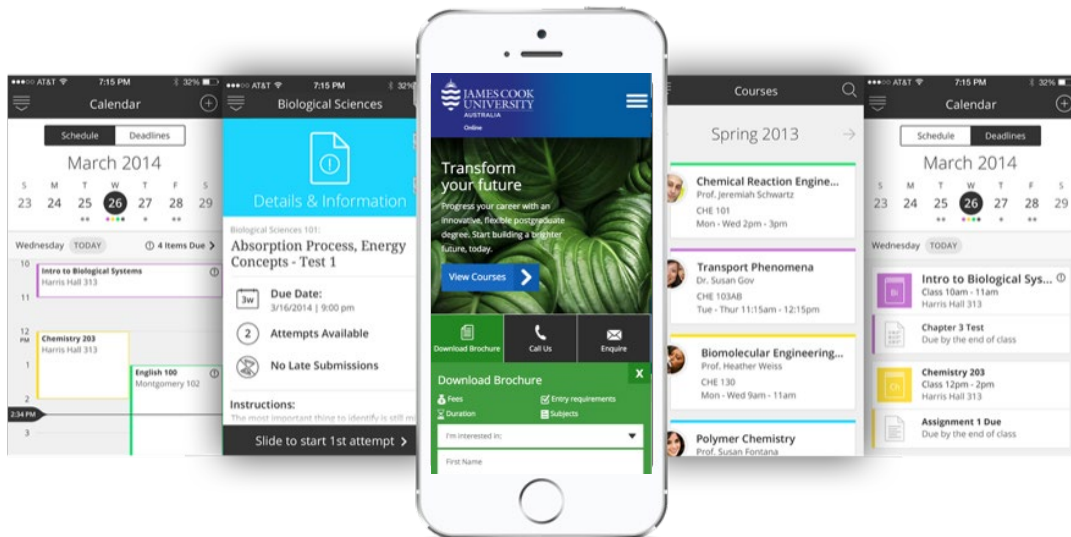


The Verandah Walkway





1. Adopted a new LMS in 2018
2. Migrate 2200 INTERNAL units/subjects by 2020
3. 100% responsive design (mobile first)
4. WCAG 2.0 accessible
5. Cloud hosted (rolling monthly upgrades)
6. Curatorial tool (LTI integrations with other products and frameworks, e.g. H5P)

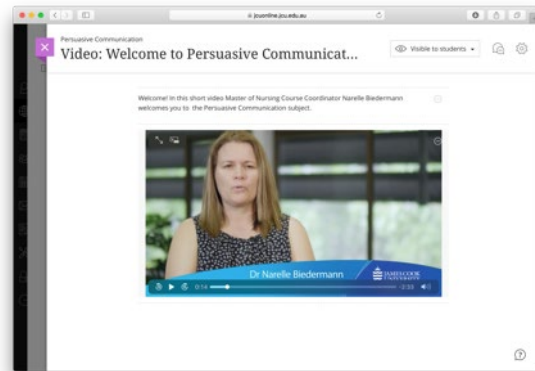
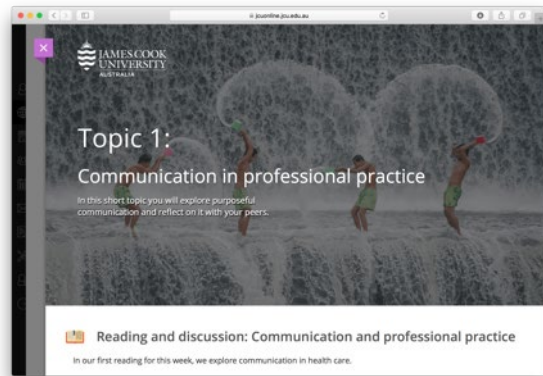


New Learning Environment

jcu.edu.au/learn



1. Develop new **EXTERNAL** programs
2. Launched Data Science and Nursing Science in Oct 2017
3. Developed in partnership with a 3rd party partner
4. Introduced 6 new study periods per yr
5. Carousel model (7 week)
6. More to follow...



JCU Online

*new suite of fully
online programs*

online.jcu.edu.au

Minimum Online Presence

1. The **Subject Outline** is included in every subject site
2. **Learning activities and resources** are **accessible, equitable and responsive**
3. Every subject contains a **video introduction**
4. **Assessment tasks** utilize **gradebook**
5. **Mediasite** is the **supported** platform for all JCU lecture capture, media delivery and storage
6. **Activity Stream data** is available in **every subject**
7. All **essential L&T communication** associated with a subject is **delivered via the subject site**
8. **Reading Lists** link to **authentic resources** that are **Copyright compliant**

Transform Project

Introduced MOP as a baseline for all Internal and External

jcu.edu.au/transform

Introduced the JCU Digital Maturity Model (DMM) with 3 distinct levels.

- **Baseline** - has adopted the Minimum Online Presence (MOP) and meets threshold standards
- **Accomplished** - well integrated digital experiences that enhance student learning
- **Exemplary** - deeply engages with blended learning across multiple dimensions



Digital Maturity Model



JCU UltraReady

2yr migration overview

TP1 2018

Migrate 5% of subjects
12 courses / 300 subjects

(early adopters, new courses and JCU
Online/Keypath, hi-touch support)

TP1 2019

Migrate 35% of subjects
70 courses

(automated where possible,
low-touch support)

Jan

June

July

Dec

Jan

June

July

Dec

TP2 2018

Migrate 35% of subjects
70 courses

(automated where possible, low-
touch support)

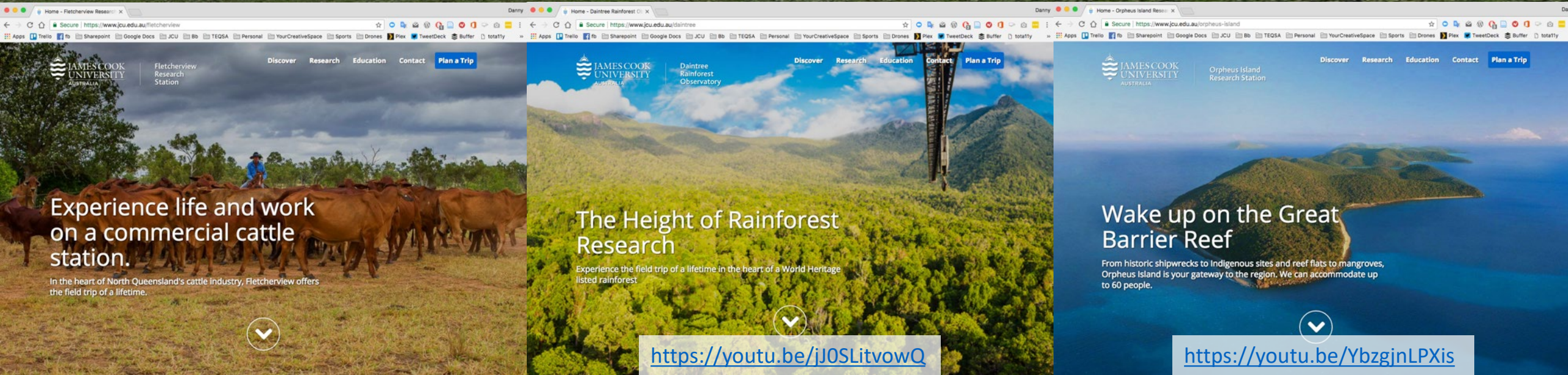
TP2 2019

Migrate 25% of subjects
60 courses

(specialist subjects that
require specialist support,
hi-touch support)

- 
- An aerial photograph of a tropical island. The island is covered in dense, lush green forest. It has a sandy beach along its perimeter. The water around the island is a vibrant turquoise color, transitioning to a deeper blue further out. In the background, other islands and a hazy horizon are visible under a clear sky.
- Enabling access to research stations and observatories for **INTENSIVE, INTERNAL** and **EXTERNAL** study modes

Research Stations and observatories



Fletcherview Research Station

Discover Research Education Contact [Plan a Trip](#)

Experience life and work on a commercial cattle station.

In the heart of North Queensland's cattle industry, Fletcherview offers the field trip of a lifetime.

<https://youtu.be/jJ0SLitvowQ>

Daintree Rainforest Observatory

Discover Research Education Contact [Plan a Trip](#)

The Height of Rainforest Research

Experience the field trip of a lifetime in the heart of a World Heritage listed rainforest.

<https://youtu.be/YbzzgjnLPXis>

Orpheus Island Research Station

Discover Research Education Contact [Plan a Trip](#)

Wake up on the Great Barrier Reef

From historic shipwrecks to Indigenous sites and reef flats to mangroves, Orpheus Island is your gateway to the region. We can accommodate up to 60 people.

<https://youtu.be/YbzzgjnLPXis>



**PG
Research**

**Community
Engagement**

**Research
Stations**

**UG
Field Study**

**School
Engagement**



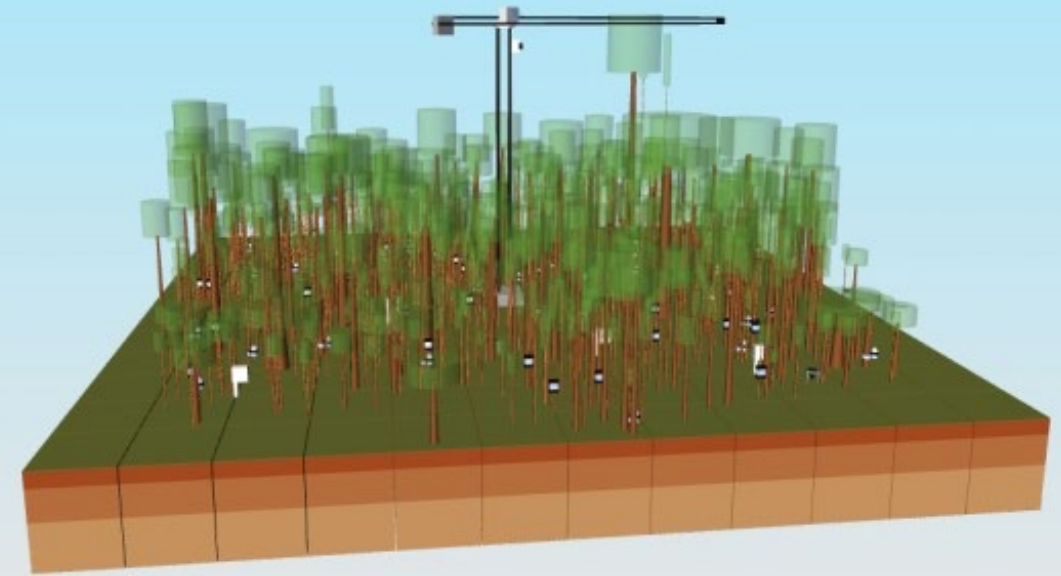
Daintree clip

Unlisted

No views

<https://youtu.be/hb0LVT9uG34>

LIKE DISLIKE SHARE



'600 sensors giving researchers access to real-time data and video feeds from the Daintree Research Observatory.

This includes 60 sap flow sensors, 60 automated dendrometer bands, 10 soil moisture pits, more than 90 temperature and humidity sensors, two weather stations, water flow sensors and cameras continuously recording different aspects.

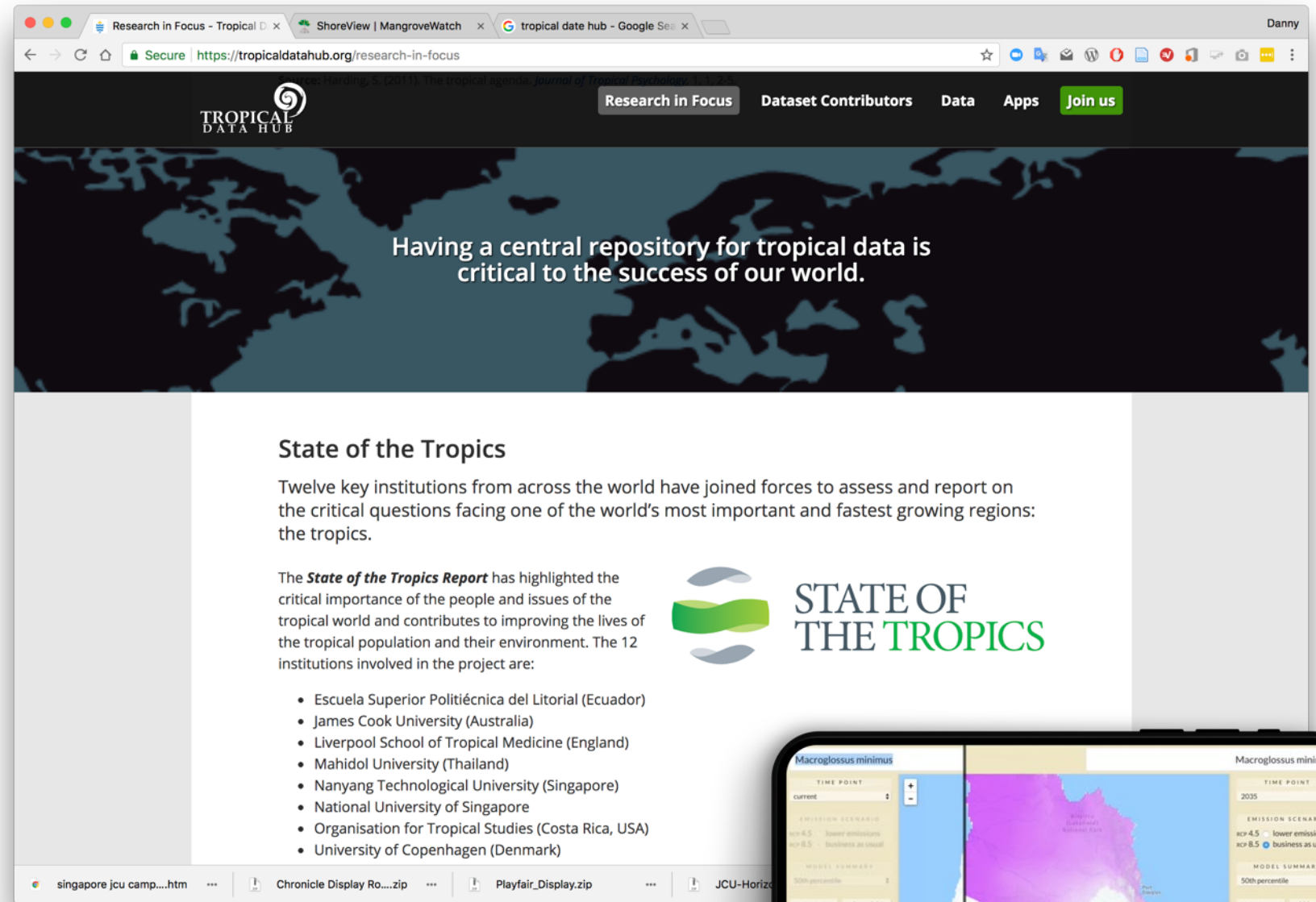
By opening online access to the data, researchers will gain insights into complex processes such as hydrology, erosion, climate change and ecology.'





- Central Repository
- State of the Tropic reports from 12 Institutions
- 16 Institutional datasets
- 2500+ published assets
- Open Data
- Citizen Science
- Discovery Apps

tropicaldatahub.org



Climas data in new LMS subject site



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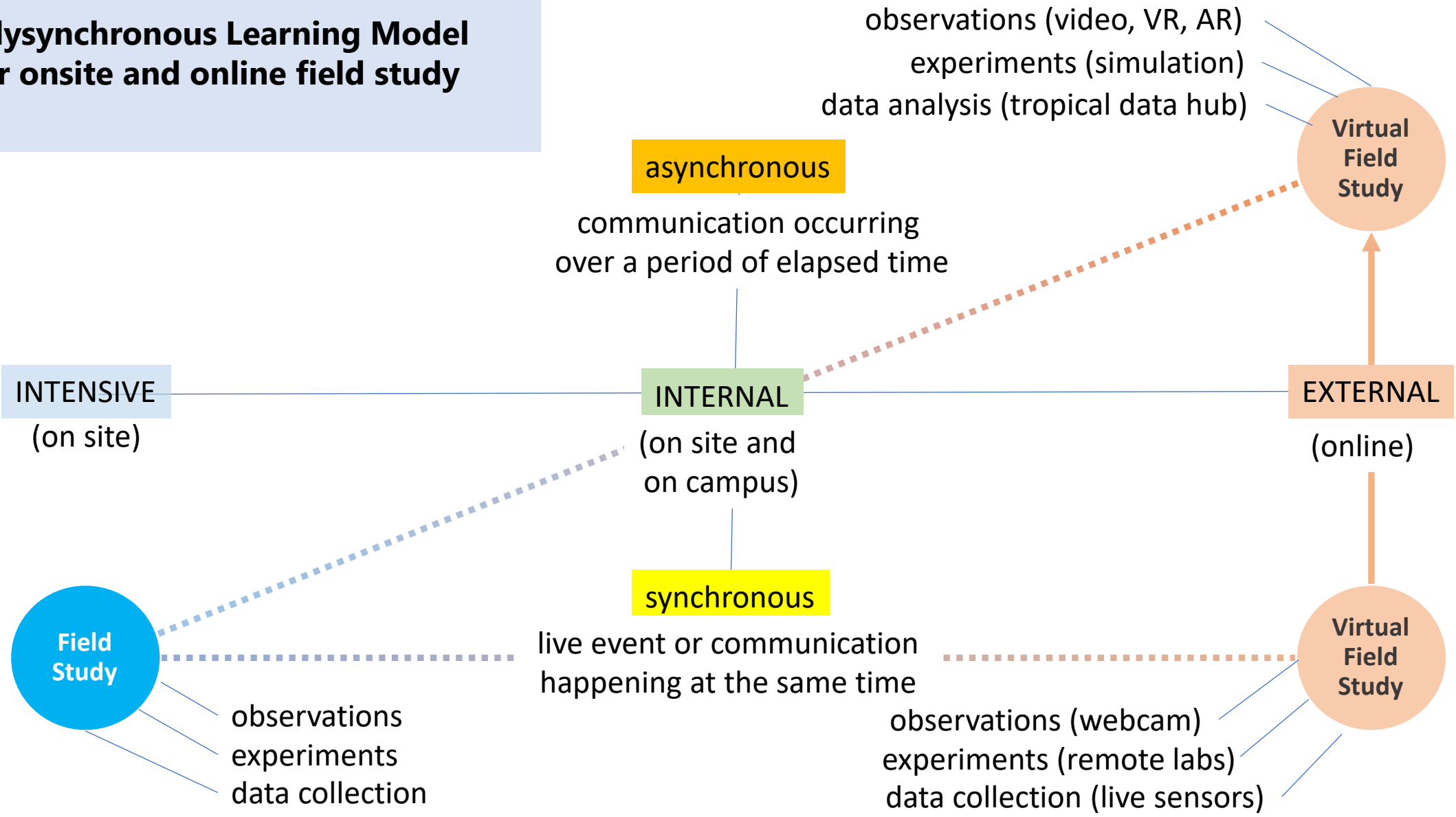
tropicaldatahub.org

<https://youtu.be/m7q2zj1ECkc>

The screenshot shows a YouTube video player displaying a demo of the CLIMAS Next Generation web application. The browser address bar shows "climas.hpc.jcu.edu.au/maps/". The application interface includes a header with "CIIMAS Climate change and biodiversity in Australia" and navigation links for "About CIIMAS", "View Maps", and "Create Reports". The main content area is split into two panels for "Macroglossus minimus". The left panel shows settings for "current" time point, "RCP 4.5 - lower emissions" scenario, and "50th percentile" model summary. The right panel shows settings for "2035" time point, "RCP 8.5 - business as usual" scenario, and "50th percentile" model summary. A central map displays a geographical area with a purple shaded region. The video player controls at the bottom show a progress bar at 0:00 / 0:33 and standard playback icons. Below the video player, the video title "CLIMAS demo" is listed as "Unlisted" with "No views". Interaction buttons for "LIKE", "DISLIKE", "SHARE", and a menu icon are visible at the bottom right.



Polysynchronous Learning Model for onsite and online field study





Transmedia: Taking documentary video to VR & AR

- Google Expedition
- Google Cardboard
- Google Streetview

<https://youtu.be/EWQqXfXMu3k>

A YouTube video player showing a classroom scene. A student in the foreground is wearing a VR headset. In the background, a teacher is standing at the front of the class, and other students are also using VR headsets. The video player interface includes a progress bar at 0:43 / 1:28, and interaction buttons for Like, Dislike, Share, and a menu icon. The video title is 'Google Expedition' and it is marked as 'Unlisted' with 'No views'.

AG1007 Joe Week 3 lecture 1 and 2 2018

Summary Share Edit Security Publish Analytics ▾ More ▾ Delete

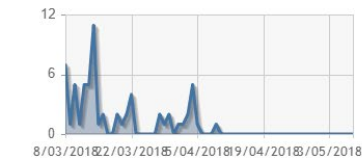
Dashboard

Refresh Download Report ▾

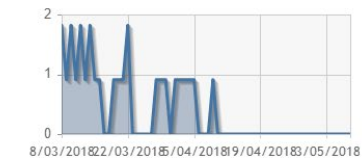
AG1007 Joe Week 3 lecture 1 and 2 2018

Presented By: James Cook University
 Recorded: 8/03/2018 12:55 PM EAST
 2 Hours 4 Seconds
 Last Refreshed: 8/05/2018 2:04 PM

Performance



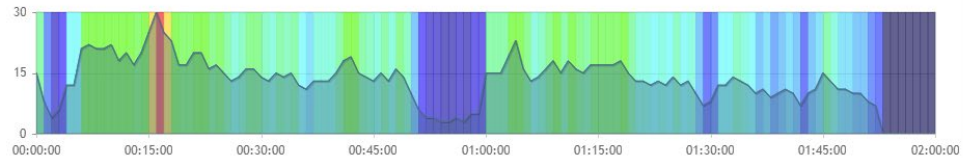
VIEWS
63



PEAK CONNECTIONS
2

LIVE	ON DEMAND	FIRST	LAST	TIME WATCHED	AVERAGE WATCHED
0	63	8/03/2018	9/04/2018	21:42:56	00:20:40

Trends



Top Users

Users ▾

User	Views ▾	Time Watched	Coverage
jc258686	5 7.94 %	0:49:02	0:43:19
jc321298	5 7.94 %	1:42:41	1:07:58
jc493229	5 7.94 %	2:09:36	1:24:31
jc466548	4 6.35 %	1:33:17	1:08:37
jc483038	4 6.35 %	0:07:11	0:07:11
jc466556	3 4.76 %	1:29:54	1:28:26
jc487616	3 4.76 %	0:25:53	0:24:45
jc492353	3 4.76 %	1:39:31	1:38:30

VR - Chasing Coral x Danny

https://www.chasingcoral.com/vr/

CHASING CORAL

AN EXPOSURE LABS PRODUCTION

We are thrilled to offer groups the opportunity to go below the waves. Our VR assets include *Chasing Coral: The VR Experience* film and The Ocean Agency's Google Expeditions!

CHASING CORAL - THE VR EXPERIENCE

Thank you

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Learning Teaching and Student Engagement