



Species on the Move

International conference

Hobart, Tasmania, Australia

February 9-12, 2016

***Species on the Move* was hosted by**



**UNIVERSITY of
TASMANIA**



IMAS
INSTITUTE FOR MARINE
& ANTARCTIC STUDIES

Major sponsors



NCCARF

National
Climate Change Adaptation
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Supporting sponsors



**The Ian Potter
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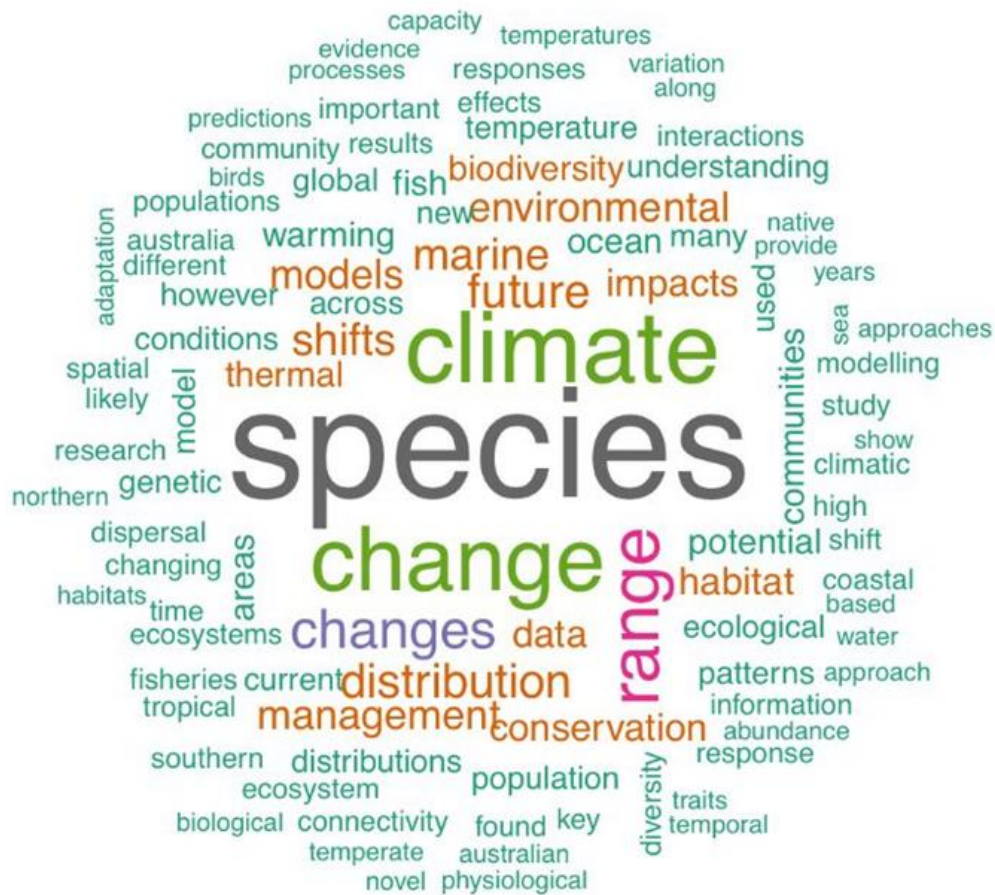


Centre of Excellence for Environmental Decisions

Videoring of key talks generously funded by the 2A4 grant scheme

Word cloud of top 100 words from abstracts

(courtesy of Tim Bonebrake)



Conference in numbers

- 277 attendees, 259 FTE
- Three plenaries
- 56 posters
- 155 talks across 12 themes
- Attendees 60% Australian, 40% International

Public Forum

- Attended by 450+ people
- Supported by The Climate Council



Species on the Move: How is Nature Responding to Climate Change?

Plants and animals all over the world are responding to warming temperatures, many by shifting where they live. Join this team of international experts to learn about the surprising ways climate change is affecting the planet's natural ecosystems – from the Arctic to the tropics, on land and in the ocean. Hear first-hand how a changing climate is impacting Indigenous communities in the Arctic. This special event will feature a series of short talks followed by an opportunity for the audience to ask questions.

MC: Dr Alistair Hobday Senior Principal Research Scientist, CSIRO Oceans and Atmosphere

Speakers

Professor Will Steffen
Research with Australian National University and councillor with The Climate Council

Professor Camille Parmesan
Marine biologist, University of Texas at Austin and Plymouth University

Associate Professor Gretta Pecl
Chair of Redmap and ARC Future Fellow at Institute for Marine and Antarctic Studies

Professor Stephen Williams
Centre for Tropical Biodiversity & Climate Change, James Cook University and Director of the National NCCARF Adaptation Network for Natural Ecosystems

Dr Tero Mustonen
Traditional knowledge and Arctic biodiversity advocate with Snowchange Cooperative

When 8.00 - 9.45pm, Tuesday 9 February
Where Grand Chancellor, 1 Davey Street, Hobart
Register www.events.utas.edu.au

Presented as part of the Species on the Move conference www.speciesonthemove.com



Summary of Media

TV

February 8

- ABC TV News 24 (live National morning show) – Gretta Pecl interview
- ABC TV News – Camille Parmesan, Gretta Pecl, Tero Mustonen, <http://www.abc.net.au/news/2016-02-09/tero-mustonen-from-finland/7153116>
- Southern Cross News - Von Bibra, Gretta Pecl
- WIN TV News – Gretta Pecl

Radio

February 8

- Panorama, SYN FM Oliver Jones – Gretta Pecl, Corey Bradshaw – Species on the Move <http://syn.org.au/species-on-the-move>
- ABC programs – (Leon Compton panel) – Gretta Pecl, Stephen Williams, Alistair Hobday <https://soundcloud.com/user726680847/species-on-the-move-conference-hobart-leon-compton-936-abc-hobart-climate-change-science>
- ABC Programs - (Louise Saunders) Will Steffen

February 9

- Community radio, SYN FM Oliver Jones – Alistair Hobday
- The Wire, Adelaide – Emma Lee
- ABC, RN Breakfast, Humans at risk as species shift with climate change – Camille Parmesan and Gretta Pecl <https://radio.abc.net.au/programitem/pglx7LY9NG?play=true>
- ABC, The World Today, People also need to adapt to climate change, professor tells conference on movement of species – reporting by Felicity Ogilvie, interviewed: Camille Parmesan, Gretta Pecl and Tero Mustonen. <http://www.abc.net.au/worldtoday/content/2015/s4402878.htm>

change-driving-species-to-the-poles-scientists-say/132002

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Sites ABC

NEWS LOCATION Hobart, Tas Change

Just In Australia World Business Sport Analysis & Opinion Fact Check Programs

BREAKING NEWS Human Services Minister Stuart Robert to resign from ministry, ABC understands

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Climate change driving species to the Earth's poles faster than predicted, scientists say

The World Today By Felicity Ogilvie
Updated Tue at 5:14pm

Warming temperatures are pushing land and sea creatures closer to the north and south poles and to cooler altitudes at rates faster than first predicted, scientists say.

Scientists from 40 countries are gathering in Hobart for a four-day conference about how climate change is forcing species to move, including humans.

Professor Camille Parmesan from Plymouth University in the UK said around the world animals and plants were moving towards the Earth's poles, and it is happening faster than scientists had originally predicted.

"For the species that we have really good data on where they've lived historically over the past 100 years, we're seeing about half of those have actually moved where they live, which is an astonishing number given we've only had one degree centigrade warming," she said.

The East Australian Current has moved 350 kilometres further south in the past 60 years.

Tasmania's east coast is a global hotspot for marine



PHOTO: The conference heard warming water was reducing the coverage of giant kelp forests. (Flickr)

February 12

- ABC Rural, interviewed Roger Griffin and Johann Bell

Print/Online Articles

February 4

- Pre-media, The Mercury - Species moving scientific focus- by Bruce Mounster, interviewed Gretta Pecl

February 7

- Pre-media, Talking Point - The Mercury – Species on the Move worldwide - <http://www.themercury.com.au/news/opinion/species-on-the-move-worldwide/news-story/8a7caf95adeb512c64308504bcf42ceb>



February 8

- The Mercury - Warming major threat to wildlife – by Andrew Drummond.
<http://www.themercury.com.au/news/tasmania/warming-major-threat-to-wildlife-expert-tells-international-conference-in-hobart/news-story/c302302038525b94e0c8c3bd897c9ca2#>
- The mercury - Flying fish find on Hobart beach inspires jeweller – by Loretta Lohberger
<http://www.themercury.com.au/news/tasmania/flying-fish-find-on-hobart-beach-inspires-jeweller/news-story/6a878f2a2186513d482a763c5cb448e1>

February 9

- Online media briefing with the Australian Science Media Centre and Andrew Rhodes – Burrows, Parmesan, Pecl – assorted international pickups via Agence France Press - https://news.google.com.ph/news/story?cf=all&hl=en&ned=en_ph&cf=all&ncl=dnXUiGxvqA_smmzMR8827CqmkWDKZM&topic=snc&scoring=dClimate
- The Japan Times - Climate change 'forcing species to move' - <http://www.japantimes.co.jp/news/2016/02/11/world/science-health-world/climate-change-forcing-species-move/#.Vr75CvJ97IV>
- ABC (Web) - Climate change driving species to the Earth's poles faster than predicted, scientists say – by Felicity Ogilvie <http://www.abc.net.au/news/2016-02-09/climate-change-driving-species-to-the-poles-scientists-say/7152682?section=tas>
- ABC, RN Breakfast - Animals migrating and humans under threat due to climate change - by Gregg Borschmann. <http://www.abc.net.au/radionational/programs/breakfast/humans-at-risk-as-species-shift-with-climate-change/7151720>

February 10

- The Australian - Warming a threat to wildlife: expert. <http://www.theaustralian.com.au/news/latest-news/warming-a-threat-to-wildlife-expert/news-story/bb7f2d224dc29913fb87efbb3bfd51c6>
- PHYS – ORG - Climate change 'forcing species to move', <http://phys.org/news/2016-02-climate-species.html>
- The Economic Times- Science- Climate Change 'forcing species to move', http://articles.economictimes.indiatimes.com/2016-02-10/news/70510050_1_climate-change-species-camille-parmesan
- Nashville Chatter– Global warming forcing plants and animals to change locations – by Daniel Robinson . <http://www.nashvillechatterclass.com/global-warming-forcing-plants-and-animals-to-change-locations/3129/>
- Iafrika.com – Climate Change 'forcing species to move' <http://news.iafrica.com/worldnews/1020200.html>

February 15

- We are Anonymous - Climate forces species migration to poles for cooler altitudes - by AnonWatcher <http://anonhq.com/49071-2/>

February 16

- Talking Point - The Mercury- Scientists reveal life on the move on rapidly warming planet - by Peter Boyer. <http://www.themercury.com.au/news/opinion/talking-point-scientists-reveal->

life-on-the-move-on-rapidly-warming-planet/news-story/bebdcffe28ae669b32df86a75c72e9b1

- South Wind – Smashing headlights is no way to prepare for the future- by Peter Boyer.
<http://southwind.com.au/2016/02/16/a437/>

February 17

- Opinion, The Mercury - Rate of Change is off the planet- by Gretta Pecl
<http://www.themercury.com.au/news/opinion/rate-of-change-is-off-the-planet/news-story/a1d26eec86d02e8bfc24b799001c35b2>

February 23

Deccan Herald, India - Climate change 'forcing species to move'.

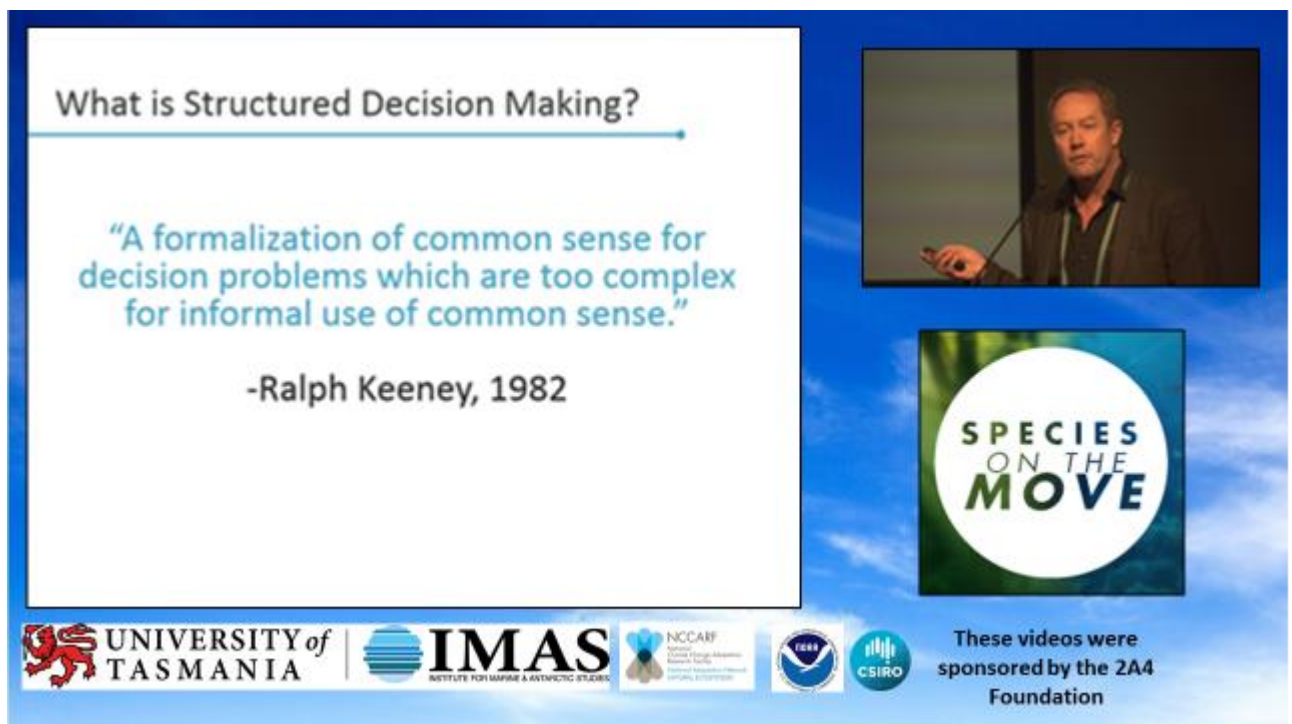
<http://www.deccanherald.com/content/528073/climate-change-forcing-species-move.html>

Video production

The 2A4 grant scheme has funded the recording and production of 15 presentations from the conference. These will be made available on the conference website and the UTAS/IMAS YouTube Channel.

Two three minute 'highlight reels' are also being produced from the conference and will be distributed widely on social media.

Example video format:



The slide features a blue background with a white rectangular area on the left containing text. On the right, there is a video inset showing a man speaking at a podium. Below the video inset is a circular logo with the text 'SPECIES ON THE MOVE'. At the bottom of the slide, there is a row of logos for the University of Tasmania, IMAS, NCCARF, ICRS, and CSIRO, followed by a text box stating 'These videos were sponsored by the 2A4 Foundation'.

What is Structured Decision Making?

"A formalization of common sense for decision problems which are too complex for informal use of common sense."

-Ralph Keeney, 1982

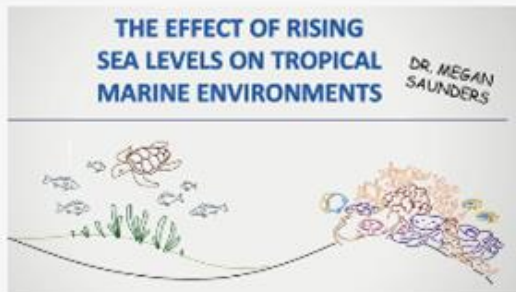
SPECIES ON THE MOVE

UNIVERSITY of TASMANIA | IMAS INSTITUTE FOR MARINE & ANTARCTIC STUDIES | NCCARF National Centre for Climate Change Adaptation Research | ICRS International Centre for Resilient Systems | CSIRO

These videos were sponsored by the 2A4 Foundation

Research Video Competition

Five entries with over 4000 views



THE EFFECT OF RISING SEA LEVELS ON TROPICAL
MARINE ENVIRO...
RANKING: 1



FORESTS OF THE SEA
RANKING: 2



GREAT SOUTHERN REEF - FEELING THE HEAT
RANKING: 3



ARE THE PUBLIC WILLING TO HELP IDENTIFY
RANGE-SHIFTING MA...
RANKING: 4



WHO LIKES IT HOT? MOUNTAIN TOP FROGS
VULNERABILITY TO CLI...
RANKING: 5

Research VIDEO COMPETITION!

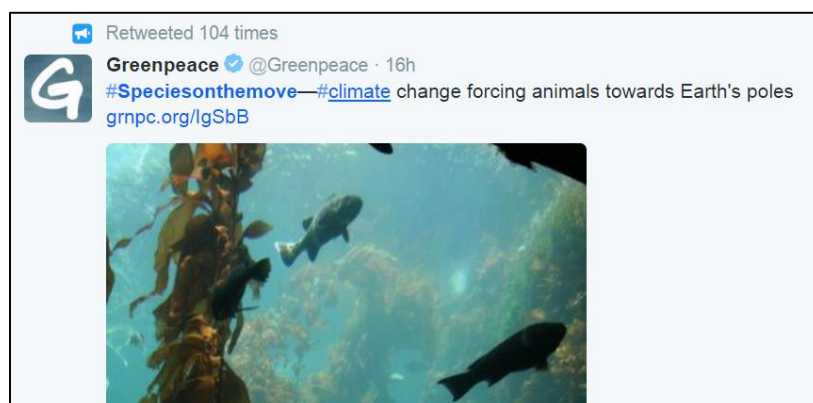
VOTE for your favourite video and
help them win \$1000 AUD



Twitter activity

- #SpeciesOnTheMove trended at no. 4 in Australia for much of the conference
- Over 5000 tweets
- 8 million timelines
- 800 distinct users

trendinalia.com	
Trendinalia Australia	
Country: Australia	# Trending Topic
Date 11/02/2016 10/02/2016 9/02/2016 8/02/2016 7/02/2016 6/02/2016 5/02/2016	1 #vala16
	2 #TheFlash
	3 Greg Hunt
	4 #SpeciesOnTheMove
	5 New Hampshire
	6 #rubyconf_au



Media releases (attached)

- ❑ *Climate change a reality for birds of Australia's Wet Tropics (Williams)*
- ❑ *Conservation planning essential as nature moves with climate change (Parmesan)*
- ❑ *International management of marine resources needed as ocean warming reshapes marine communities (Burrows)*
- ❑ *US scientists can now track fish adapting to warming oceans*

Other

- ❑ *Conference news alert*
- ❑ *Field trip advisory*
- ❑ *Public forum release*