

**OzEWEX**

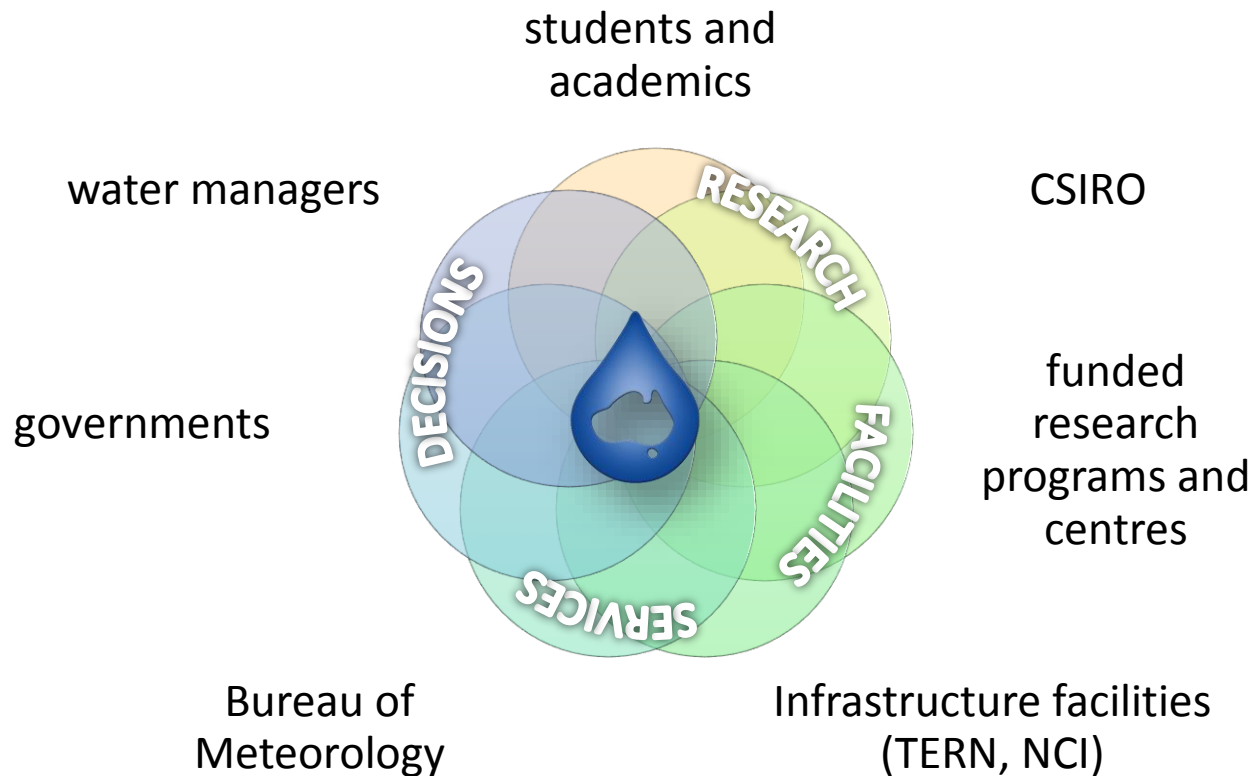
2017

THE AUSTRALIAN ENERGY AND WATER  
EXCHANGE RESEARCH INITIATIVE

4<sup>th</sup> national workshop



# What is OzEWEX?



# Our focus

***Understand and predict Australia's fresh water resources and water security into the future.***

- data sharing
- collaboration
- engagement

Priorities:

- Observational Data
- Model Evaluation and Benchmarking
- Data Assimilation
- Trends and Extremes
- Vegetation Processes
- Hydrological Prediction

OzEWEX operates under the auspices of GEWEX and HEPEX



**GEWEX**

**HEPEX**

Hydrologic Ensemble Prediction EXperiment

# OzEWEX in 2017

- 💧 Information sharing
- 💧 Summer Institute
- 💧 Projects
- 💧 Events



# www.ozewex.org

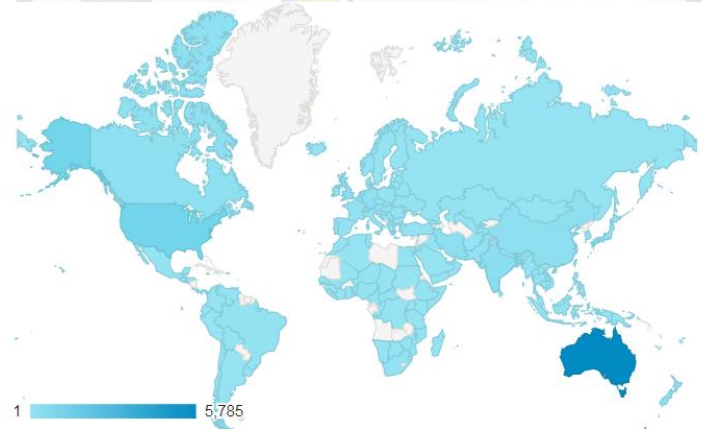
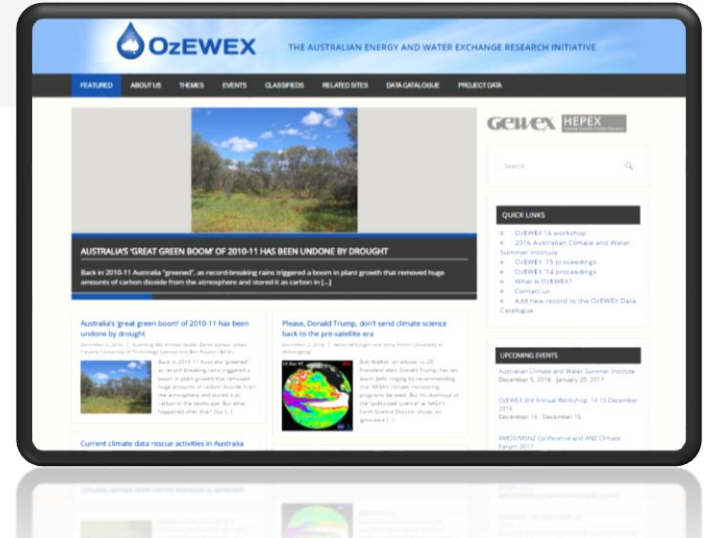
- bi-monthly newsletter to ~1000 people

Over past year:

- ~7,000 unique visitors
- ~17,700 page views

It is there for you.

We can help you publish:  
*editor@ozewex.org*



# Social media



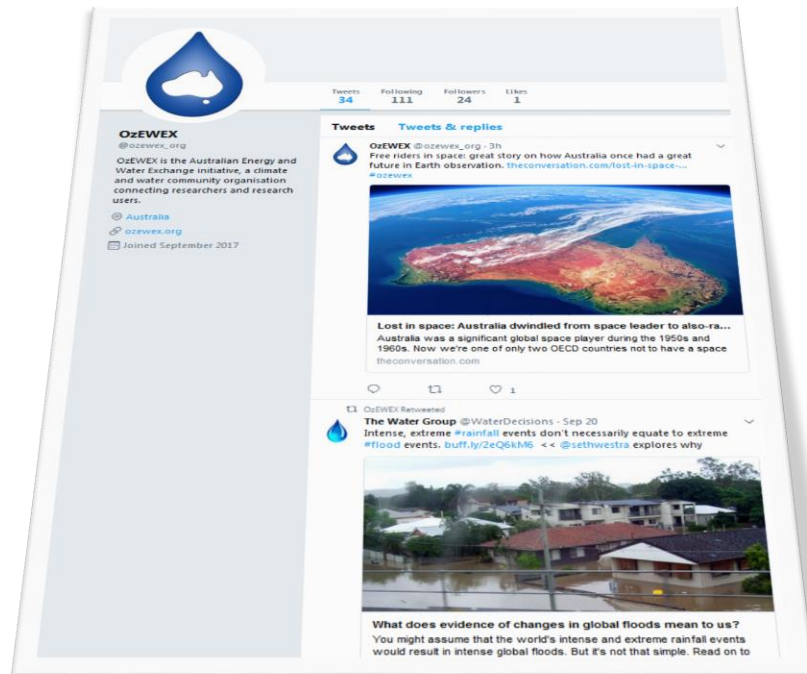
@ozewex\_org



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[www.facebook.com/ozewex](https://www.facebook.com/ozewex)

- Australian climate and water news
- New publications
- Events





**OzEWEX**

**AUSTRALIAN CLIMATE AND  
WATER SUMMER INSTITUTE  
2016**

**2<sup>nd</sup> Australian Climate and  
Water Summer Institute**

11 December 2017 – 2 February 2018



<http://ozewex.org/first-ozewex-summer-institute/>



# Projects

- **Are eucalypts different?** (Martin De Kauwe and Belinda Medlyn; HIE/UNSW): invited workshop in February 2018
- **Water availability across Australia during the last 2000 years: implications for water security** (Anthony Kiem, UoN): revisit in March 2018
- **A typology of compound events** (Michael Leonard, UniA): merged with international WCRP initiative (to be revisited)

*Anyone can propose a project at any time.*

*We try help you find sponsors.*

# Events

- 4<sup>th</sup> Annual **OzEWEX** workshop. 6 December 2017, CSIRO Hobart
- Australian Climate and Water **Summer Institute** Culmination Event. 1-2 February 2018, ANU
- **AMOS**-International Conference on Southern Hemisphere Meteorology and Oceanography. 5-9 February 2018, UNSW, Sydney
- 2018 **HEPEX** workshop: Breaking the barriers. 6-8 February 2018, Melbourne
- National workshop “Water from Space”, March 2018, ANU, Canberra (tba)

# *A National Environmental Observation and Prediction System for the year 2030*

Wednesday, 6 December, 9 am-5 pm  
CSIRO Hobart



Australian  
National  
University



bushfire&natural  
**HAZARDS**CRC



9:00	Arrival and registration
9:15	Welcome
9:30 Helen Cleugh (CSIRO)	Climate and Earth System Modelling: preparing Australia for the challenge of environmental and climate change
10:00 morning tea	Research demonstrations Tour of RV Investigator
<b><i>Requirements of a national prediction system</i></b>	
11:00 David Fuller (Entura Hydro Tasmania)	Examples and learnings from 20 years of hydrological prediction
11:30 Nick Car (CSIRO)	A National Environmental Prediction System for Australia: the proposal & OzEWEX requirements
12:00 Albert van Dijk (ANU)	discussion starter & panel discussion
12:30 lunch	



12:30 lunch

***Challenges in developing a national prediction system***

13:30 Joel Rahman (FlowMatters)	Why should I care about you and your model?
14:00 Luigi Renzullo (ANU, CSIRO)	Pushing the limits of predictability (discussion starter)
14:10 Seth Westra (University of Adelaide)	System resilience and stress testing (discussion starter)
14:20 David Robertson (CSIRO)	discussion starter & panel discussion

14:45 afternoon tea

***Observations for the year 2030***

15:15 Arko Lucieer (University of Tasmania)	Unmanned Aircraft Systems for quantitative remote sensing – drone hype or innovation in Earth Observation?
15:45 Edward King (CSIRO)	Remotely Sensible Data Infrastructure
16:15 Marta Yebra (ANU)	discussion starter & panel discussion
16:35 Seth Westra (University of Adelaide)	workshop summary and close