



Cutting Edge Symposium agenda: Developing a national ecosystem assessment and forecasting system for Australia

DRAFT AGENDA

Date: 1st - 5th February 2021

Location: Online: access details TBA

Organisers: Anna Richards (CSIRO, facilitator), Natasha Porter (CSIRO, facilitator), Suzanne Prober (CSIRO, facilitator), Fiona Dickson (DAWE, facilitator), Louis Provencher (TNC), Colin Daniel (Apex Resource Management Solutions Ltd), Kristen Williams (CSIRO), Stephen Roxburgh (CSIRO), Garry Cook (CSIRO)

Objectives:

1. To *share knowledge* about ecosystem health assessment and forecasting tools which can support conservation planning, land management and ecosystem services assessment in the context of a changing climate
2. To *foster new collaborations* and relationships between US and Australian research and government institutions
3. To *build a community of practice* around dynamic ecosystem assessment in Australia

| Monday 1 st February 2021 | Tuesday 2 nd February 2021 | Wednesday 3 rd February 2021 | Thursday 4 th February 2021 | Friday 5 th February 2021 |
|---|---|--|---|---|
| Session 1 | Session 2 | Session 3 | State and Transition simulation model (ST-Sim) demonstration (<i>separate video link</i>) | Session 5 |
| 10:00 am Acknowledgement of Country Symposium introduction | 10:00 am Login & session introduction | 10:00 am Login & session introduction | 8:30 am Login & introductions | 10:00 am Login & session introduction |
| 10:20am Why do we need a dynamic ecosystem assessment system for Australia and who benefits? 3 x SPEAKERS | 10:10am What does a dynamic ecosystem assessment and forecasting system look like and what knowledge foundation do we build on? 3 x SPEAKERS | 10:10am What tools & methods do we need to bring together to develop a national ecosystem assessment and forecasting system 3 x SPEAKERS | 8:40am Demonstration of ST-Sim Dr Colin Daniel (Apex RMS) & Dr Louis Provencher (The Nature Conservancy) | 10:10am Exploring futures, climate risk and building adaptive capacity 3 x SPEAKERS |
| 10:55am Questions | 10:45am Questions | 10:45am Questions | 9:10am Interactive exploration of modelling framework | 10:45am Questions |
| 11:10am Why do we need a dynamic ecosystem assessment system for Australia and who benefits? 2 x SPEAKERS | 11:00am What does a dynamic ecosystem assessment and forecasting system look like and what knowledge foundation do we build on? 2 x SPEAKERS | 11:00am What tools & methods do we need to bring together to develop a national ecosystem assessment and forecasting system 2 x SPEAKERS | 10:00am Finish | 11:00am Exploring futures, climate risk and building adaptive capacity 2 x SPEAKERS |
| 11:30am Discussion <i>Thoughts & impressions on the need for a dynamic ecosystem assessment system, opportunities and risks</i> <i>What would you like to see come out of this symposium?</i> | 11:20am Discussion <i>What knowledge and systems are we missing to build a truly national and integrated understanding of ecosystem condition?</i> | 11:20am Discussion <i>Is there a common framework from which to integrate different tools and methods for understanding ecosystem dynamics, health and condition?</i> <i>What are the opportunities and limitations of our current methods and tools for ecosystem assessment and forecasting?</i> | | 11:20am Discussion <i>How can we use our knowledge of ecosystem dynamics to articulate climate risks and resilience of ecosystems, and options for adaptation? What do we know now and where do we need to head in the future?</i> <i>How would ecosystem services markets – such as carbon and biodiversity co benefits, - benefit from having a national ecosystem assessment and forecasting system for Australia – what would that system need to look like / consist of to be of use to these markets?</i> |
| 12:00pm Finish | 12:00pm Finish | 12:00pm Finish | Session 4 | |
| | | | 3:00pm Login & session introduction | 12:00pm Finish |
| | | | 3:10pm What tools & methods do we need to bring together to develop a national ecosystem assessment and forecasting system 3 x SPEAKERS | |
| | | | 3:45pm Questions | |
| | | | 4:00pm What tools & methods do we need to bring together to develop a national ecosystem assessment and forecasting system 2 x SPEAKERS | |
| | | | 4:20pm Discussion <i>How can we develop scenarios of ecosystem condition given current understanding of ecosystem dynamics and climate change?</i> <i>What additional tools and methods do we need to forecast future ecosystem responses to management and climate change?</i> | |
| | | | 5:00pm Finish | |