



Welcome and History of IPRRG

Darren Kriticos

Past Chair IPRRG



IPRRG 2025
KUALA LUMPUR, MALAYSIA



IPRRG Executive Committee

- * Chair: Conor Mc Gee
- * Vice-Chair: **Jessica Kriticos**
- * Secretary-Treasurer: **Ana Clariza Samayoa**
- * Communications Officer: **Ciro Gardi**
- * Student Representative: **Helena Romero**
- Policy Liaison Officer: **Alan MacLeod**
- Immediate Past Chair: **Frank Koch**
- Director and Past Chair: **Darren Kriticos**

* Primary (elected) offices



IPRRG Mission

IPRRG is focused on improving pest risk modelling & mapping methods and pest risk analysis methods through the application and sharing of rigorous, innovative research

- Regular meetings to present, test and discuss
- Collaborate on group projects
- Communicate to a broad international audience
- Provide technical training



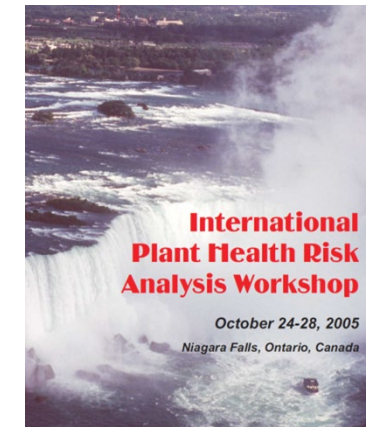
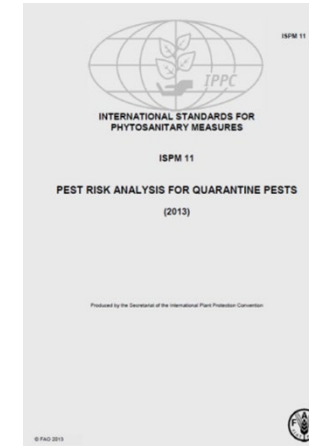
IPRRG 2025: This is your meeting!

- Be engaged
 - Ask questions and join the discussion
 - We want everybody's input
 - There is value in every idea
- We have breaks for a reason
 - Network with one another
 - Establish new relationships
 - Look for collaboration opportunities



Why was IPPRG formed?

- Formal Pest Risk Analysis (PRA) started in 1990
- International Standard for Phytosanitary Measures on PRA (**ISPM 11**) published in 2004 gives little detail on methods
- **Plant Health Risk Analysis Workshop (Niagara Falls, Canada) in 2005** identified no forum for pest risk analysts to share best practice and enhance methods for analysing and communicating risk.
 - A particular need was identified in relation to **pest risk modelling and mapping**
- In **2007** USDA-APHIS hosted the first **International Pest Risk Mapping Workshop (Fort Collins, Colorado, USA)**
 - 26 attendees from six countries and 3 continents



Workshop on Pest Risk Mapping



This is a report on the **APHIS-PPQ-CPHST Workshop on Pest Risk Mapping** held on June 5-7, 2007 in Fort Collins, Colorado.

October, 15, 2007



How was IPRRG created?

- Initially called the International Pest Risk Mapping Workgroup (**IPRMW**)
 - Informal network of pest risk analysts
- By meeting 7 (2013), it was agreed that we needed a professional body with a constitution to:
 - Give us a clear identity when promoting our work and engaging with external bodies
 - Provide funds to support the website, the annual meetings and other activities
- At meeting 9 (2015):
 - Constitution was agreed
 - Registered as an unincorporated not-for-profit association in Australia
 - Executive Committee elected
 - Changed the name to the **International Pest Risk Research Group (IPRRG)** to reflect the fact that all pest risk related research is covered by the group.



CONSTITUTION OF THE INTERNATIONAL PEST RISK RESEARCH GROUP

ARTICLE 1. NAME. The official name of this organization is the International Pest Risk Research Group. In correspondence or any other published documents, it may also be referenced by the acronym IPRRG after the first appearance of the official name.

ARTICLE 2. OBJECTIVES. The primary objective of the International Pest Risk Research Group ("Group" hereafter) is to develop enhanced pest risk modelling and mapping methods through rigorous and innovative research focused on the key challenges faced by the discipline, exploiting advances made in related fields. This objective is achieved by regular meetings where developments are presented, discussed, and tested, together with publications as appropriate. A related objective is to communicate findings of the Group and its members regarding these topics to a broad international audience that includes scientists, policymakers, and other end users, seeking their feedback to ensure that their needs are recognized, and that modelling and mapping outputs are used as effectively as possible. Another key objective is to provide technical training in the methods utilized to generate these outputs, thereby promoting best practice in their application.

ARTICLE 3. ORGANIZATION AUTHORITY. Although Group members are typically full-time employees of government agencies or academic institutions, the Group is not affiliated with any particular agency or institution, nor is it directly subject to the rules of governance of such. The Group is instead governed according to the rules defined in this Constitution. It is the responsibility of individual members to ensure that their participation in the Group is in accordance with the policies of their home agency or institution.

ARTICLE 3a. AFFILIATION WITH OTHER ORGANIZATIONS. The Group does not operate under the auspices of any other organization (e.g., plant protection organizations) or professional society. However, the Executive Committee has the authority to pursue affiliations and propose them to the general membership, at which time they must be approved by majority vote (see Article 6).

ARTICLE 4. MEMBERSHIP. Membership is open to all individuals engaged in or interested in pest risk modelling and mapping methodologies or applications. Any person who attends a Group meeting, or who contacts the current Secretary-Treasurer (see Article 5c) with a request for membership, is



Who are we?

Members:

- >450 members
- >56 countries

Affiliations:

- Students and professionals from academic institutions, national and international agencies
- Interdisciplinary background, e.g. pest risk analysts, modellers, entomologists, plant pathologists, ecologists, economists, risk managers, etc.

Executive Committee:

- Chair, Vice-Chair, Secretary-Treasurer, Communications Officer, Student Representative

Scientific Committee:

- Exec Committee & local organisers

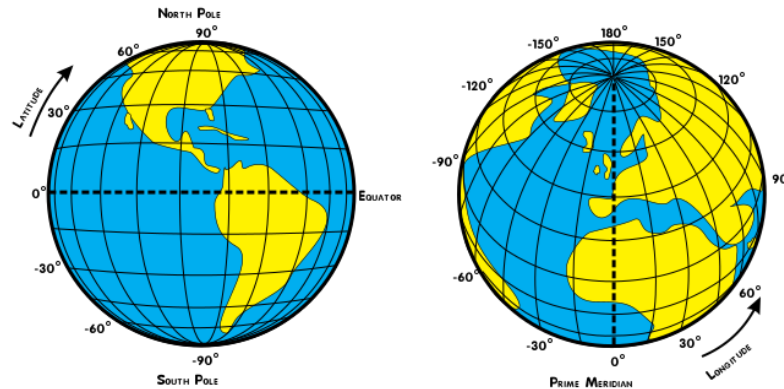




The Logo



David B. Langston, University of Georgia, Bugwood.org



Achievements

- 16 annual meetings on five continents
- 399 papers presented
- Sponsorship of the 2012 meeting by the OECD and 2018 Meeting by Taiwanese Ministry of Science and Technology
- Webinar series



Summary of the International Pest Risk Mapping Workgroup meeting sponsored by the Cooperative Research Program on Biological Resource Management for Sustainable Agricultural Systems

R.C. Venette, D.J. Kriticos, F.H. Koch, T. Rafoss, W. van der Werf, and R. Baker

The conference succeeded in stimulating new ideas about how to incorporate climate change, economics, and uncertainty into pest risk models and maps for invasive alien species and how to communicate these improved results to biosecurity policymakers. The full proceedings of the meeting will appear in an upcoming issue of the journal NeoBiota.

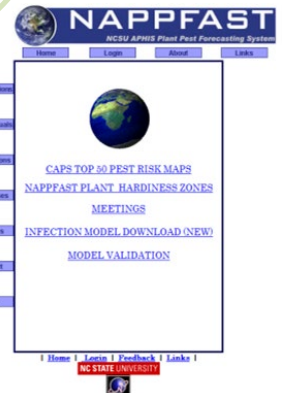
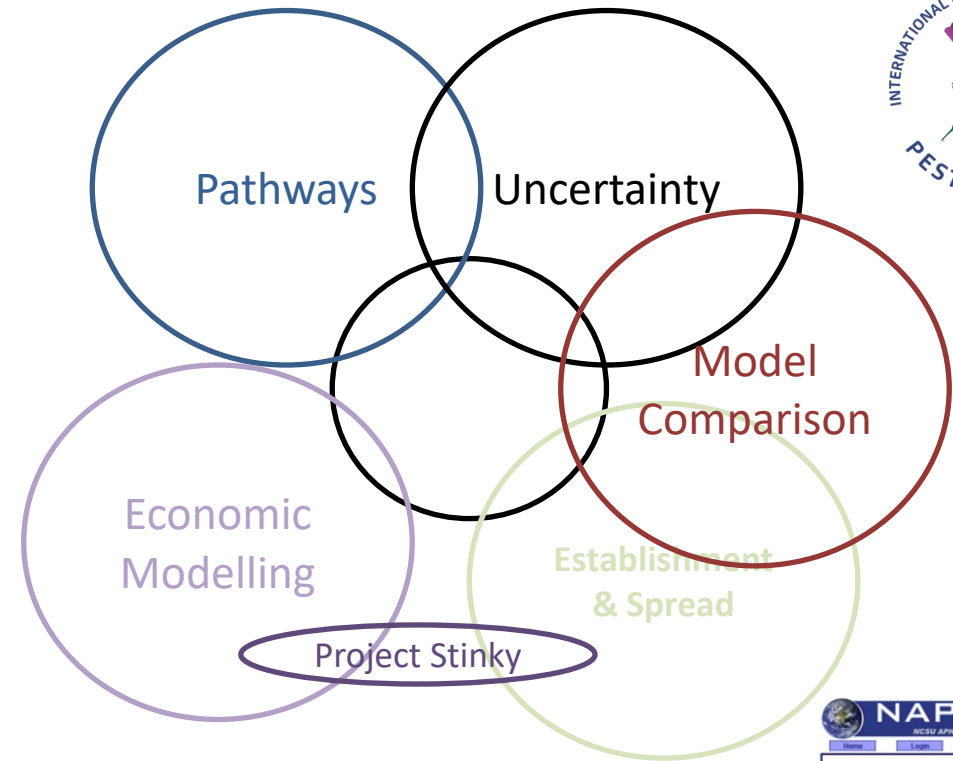


No	YearLocation	Papers presented
1	2007Fort Collins, Colorado, USA	18
2	2008St. Paul, Minnesota, USA	14
3	2009Pescadero, California, USA	26
4	2010Port Douglas, Queensland, Australia	32
5	2011Fort Collins, Colorado, USA	30
6	2012Tromsø, Norway	29
7	2013Raleigh, North Carolina, USA	17
8	2014Canberra, Australia	19
9	2015Fort Collins, Colorado, USA	17
10	2016Parma, Italy	32
11	2017Ottawa, Canada	27
12	2018Taichung, Taiwan	26
13	2019Poznan, Poland	32
	2020Webinar series	-
14	2022Athens, Greece	45
15	2023Nairobi, Kenya	17
16	2024Malaga, Spain	18
	Total	399

Achievements - Work group activities

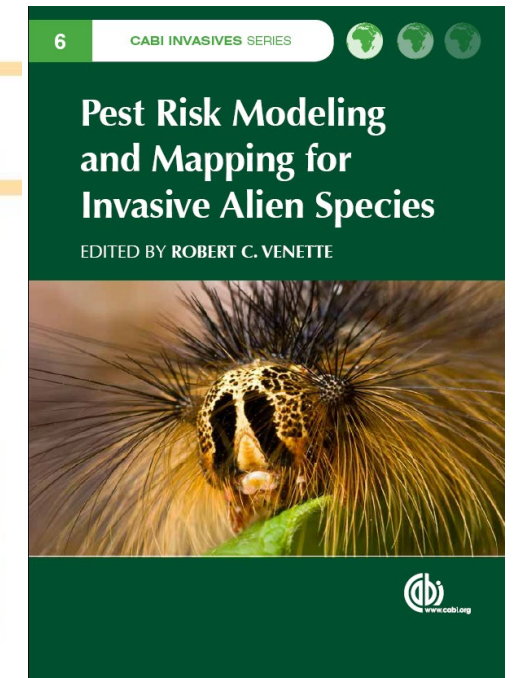
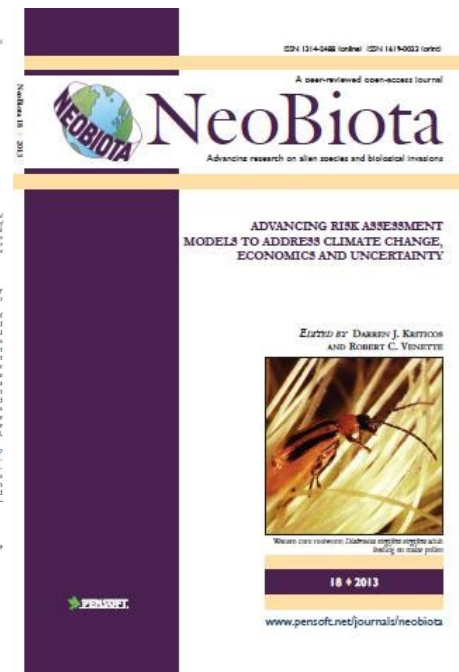
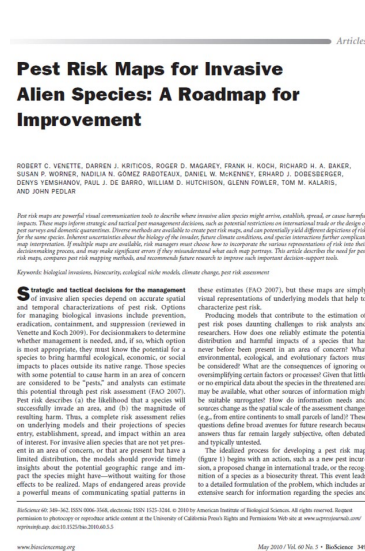
Work Group activities have:

- Led to publications
- Provided invaluable feedback on new endeavours, e.g NAPPFAST (NCSU-APHIS Plant Pest Forecasting System), the PRATIQUE EU Project and CLIMEX pest risk modelling software v. 4
- Enabled comparisons to be made between different approaches and models
- Provided a general forum for discussion on particularly challenging topics

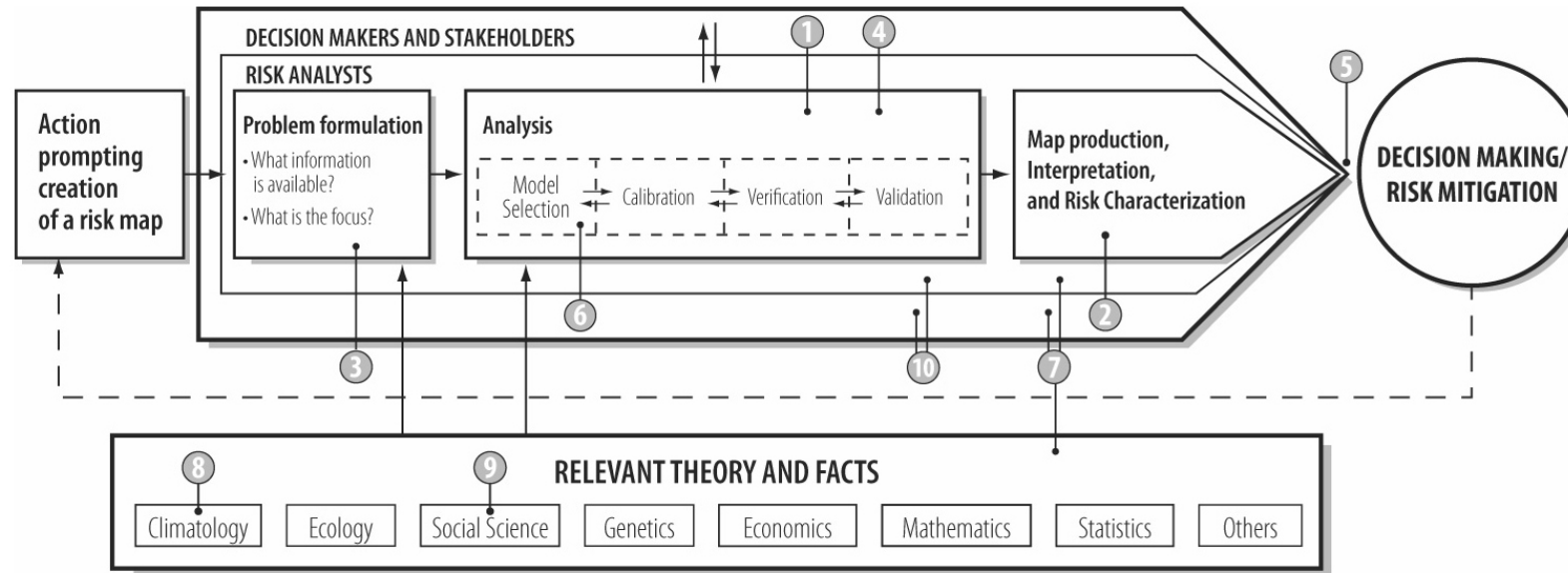


Achievements - Publications

- i. Pest risk maps for invasive alien species: a roadmap for improvement (Venette RC et al; 2010; *Bioscience*)
- ii. Advancing risk assessment models to address climate change, economics and uncertainty (Kriticos DJ et al; *Neobiota* Special Issue; 2013)
- iii. Pest Risk Modelling and Mapping for Invasive Alien Species. (Venette RC (Ed); 2015. CAB International)



What have we achieved – The roadmap



1. Provide greater documentation of model development and assessment.
2. Improve representation of uncertainty.
3. Expand availability and accessibility of primary data.
4. Develop a best practice guide and toolkit for modeling.
5. Expand communications with decision-makers on the interpretation and use of risk maps.
6. Work towards impact mapping.
7. Increase international collaboration.
8. Incorporate climate change.
9. Study how human and biological dimensions interact.
10. Provide training in pest risk modelling practice.



IAGPRA

- Merged a working group from IPPC
- Alan McLeod appointed as the Policy Liaison Officer
- Recognized IPRRG as a significant organization



Incorporation

- Sep 2023 Application made to incorporate the association in Canberra, Australia



Current and emerging goals

- *To develop enhanced pest risk modelling and mapping methods through rigorous and innovative research*
- *To communicate findings of the Group*
- *Provide technical training, build capacity*
- *Engagement with developing nations*



terima kasih

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