



Torre del Mar, Malaga 2024

Meeting Welcome

Frank Koch

Chair, IPRRG Executive Committee



UNIVERSIDAD
DE MÁLAGA



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CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



Thank you to our hosts and co-organisers!



- Spanish National Research Council
- University of Malaga

- CABI
- Cervantes Agritech

IPRRG Executive Committee



- * Chair: Frank Koch
- * Vice-Chair: Rose Souza Richards
- * Secretary-Treasurer: Melanie Newfield
- * Communications Officer: Tomasz Kaluski
- * Student Representative: Jessica Kriticos
- Policy Liaison Officer: Alan MacLeod
- Immediate Past Chair: Darren Kriticos
- Local Arrangements Organisers: Eduardo de la Peña, Helena Romero, Mónica Aquilino

* Primary (elected) offices

IPRRG 2024-2026 Executive Committee Elections



- Five candidates for the 4 “regular” Exec Committee positions: Chair, Vice-Chair, Secretary-Treasurer, Communications Officer
 - **Ciro Gardi**
 - **Jessica Kriticos**
 - **Conor McGee**
 - **Ana Clariza Samayoa**
 - **Rose Souza-Richards**
- Single candidate for Student Representative, **Helena Romero**
- Voting closes ~6 am local time on Friday, visit the IPRRG website to vote if you haven’t already!
- Elected candidates will be installed shortly after meeting

IPRRG mission



The 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 2024 theme and key topics



- Pest Risk Assessments: Embracing New Technologies and Understanding Socio-Economic Impacts of Plant Pests Amidst Rapid Global Change
 - Innovations in Pest Risk Modelling
 - Socio-Economic Impacts of Plant Pests
 - Adapting Pest Risk Assessments to Climate Change
 - Policy and Decision Support Tools
 - Stakeholder Engagement in Pest Management
 - Case Studies on Successful Pest Management
 - Emerging Threats in Plant Health
 - Digital Innovations in Pest Monitoring
 - Global Networks for Pest Surveillance

IPRRG 2024 meeting structure



- Day 1 (today):
 - Opening presentations
 - Technical session 1 – horizon scanning and risk modelling
- Day 2:
 - Technical session 2 – innovations in pest monitoring and management
 - Technical session 3 – policy and decision support tools
 - Technical session 4 – IPRRG earth observation (EO) session (dedicated EO & pest risk session)
- Day 3:
 - Field excursion
- Day 4:
 - Technical session 5 – case studies on pest management
 - Technical session 6 – poster/flash talk session
 - Business meeting

IPRRG 2024: 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

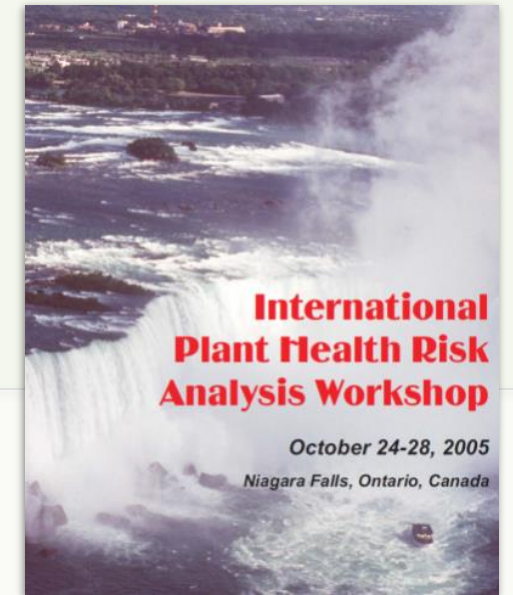
A brief history of IPRRG



- **Why** was it formed?
- **How** was it created?
- **Who** are we?
- **What** have we achieved?

Why was IPRRG 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



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 6i).

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



Ian Clarke, VicFlora 2022



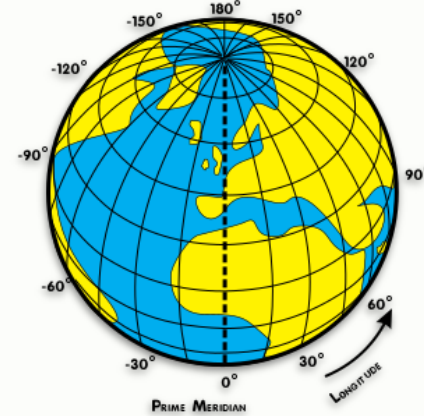
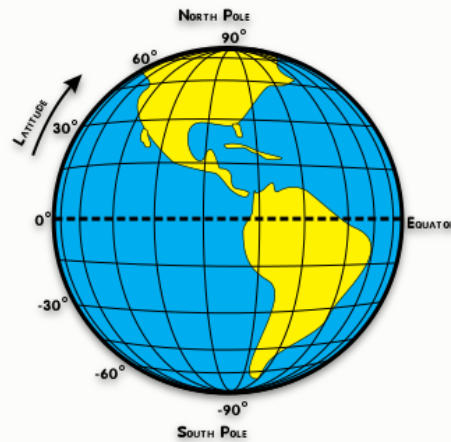
Our Logo



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



Scott Bauer, USDA



Achievements: Meetings

- 15 annual meetings on four continents
- 381 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](#).

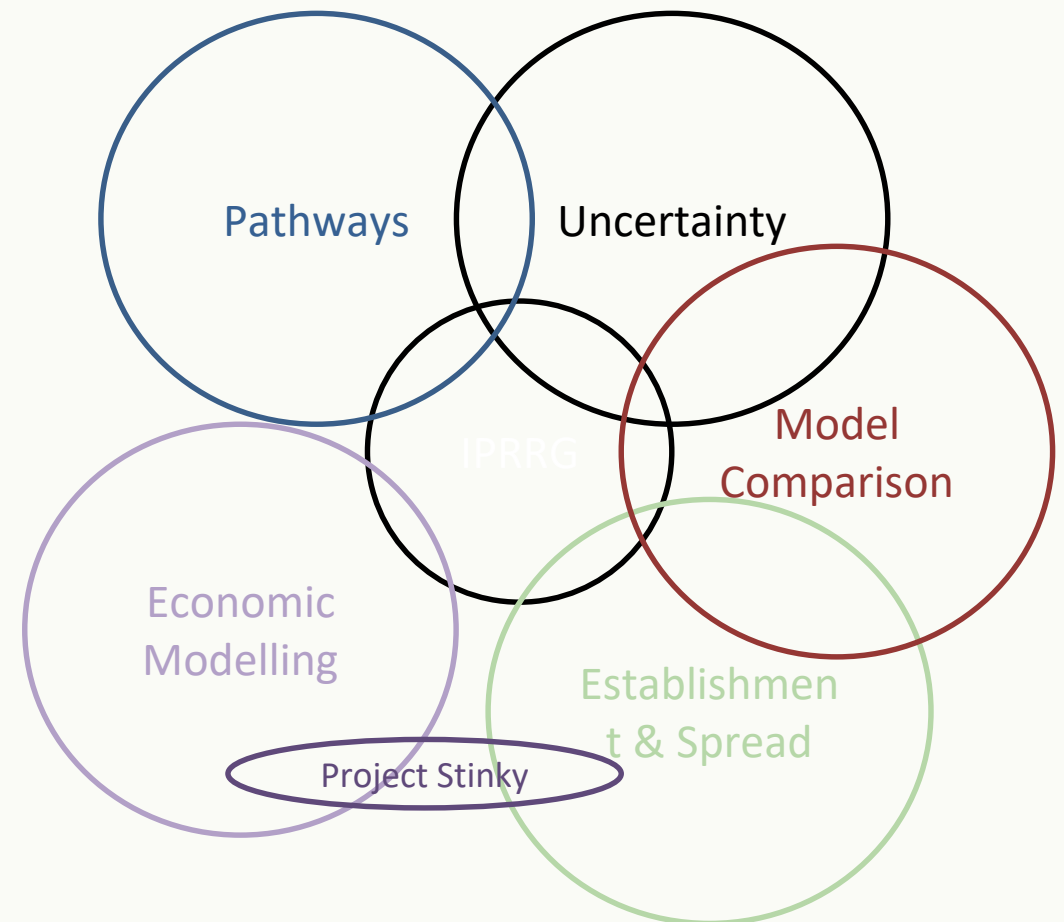
No	Year	Location	Papers presented
1	2007	Fort Collins, Colorado, USA	18
2	2008	St. Paul, Minnesota, USA	14
3	2009	Pescadero, California, USA	26
4	2010	Port Douglas, Queensland, Australia	32
5	2011	Fort Collins, Colorado, USA	30
6	2012	Tromsø, Norway	29
7	2013	Raleigh, North Carolina, USA	17
8	2014	Canberra, Australia	19
9	2015	Fort Collins, Colorado, USA	17
10	2016	Parma, Italy	32
11	2017	Ottawa, Canada	27
12	2018	Taichung, Taiwan	26
13	2019	Poznan, Poland	32
	2020	Webinar series	-
14	2022	Athens	45
15	2023	Nairobi	17
		Total	381

Achievements: Work group activities



Work Group activities have:

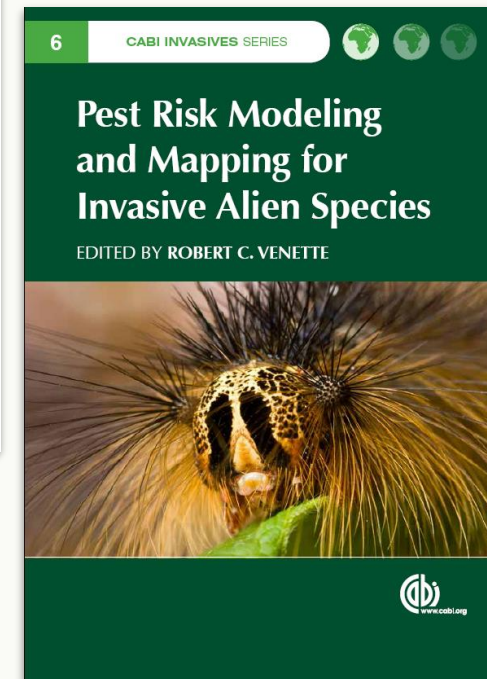
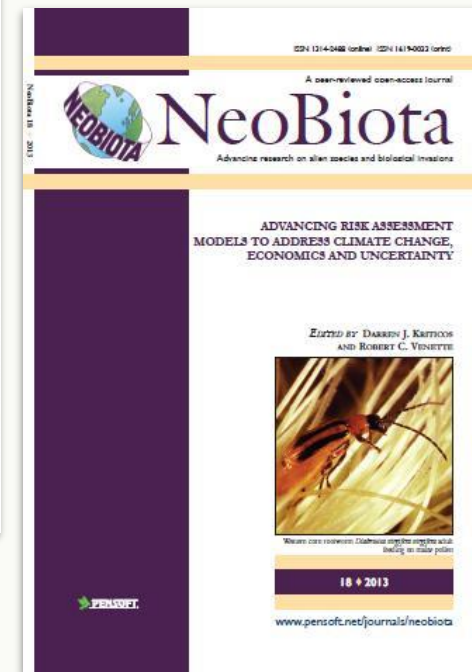
- Led to publications
- Provided invaluable feedback on new endeavours
- Enabled comparisons to be made between different approaches and models
- Provided a general forum for discussion on particularly challenging topics



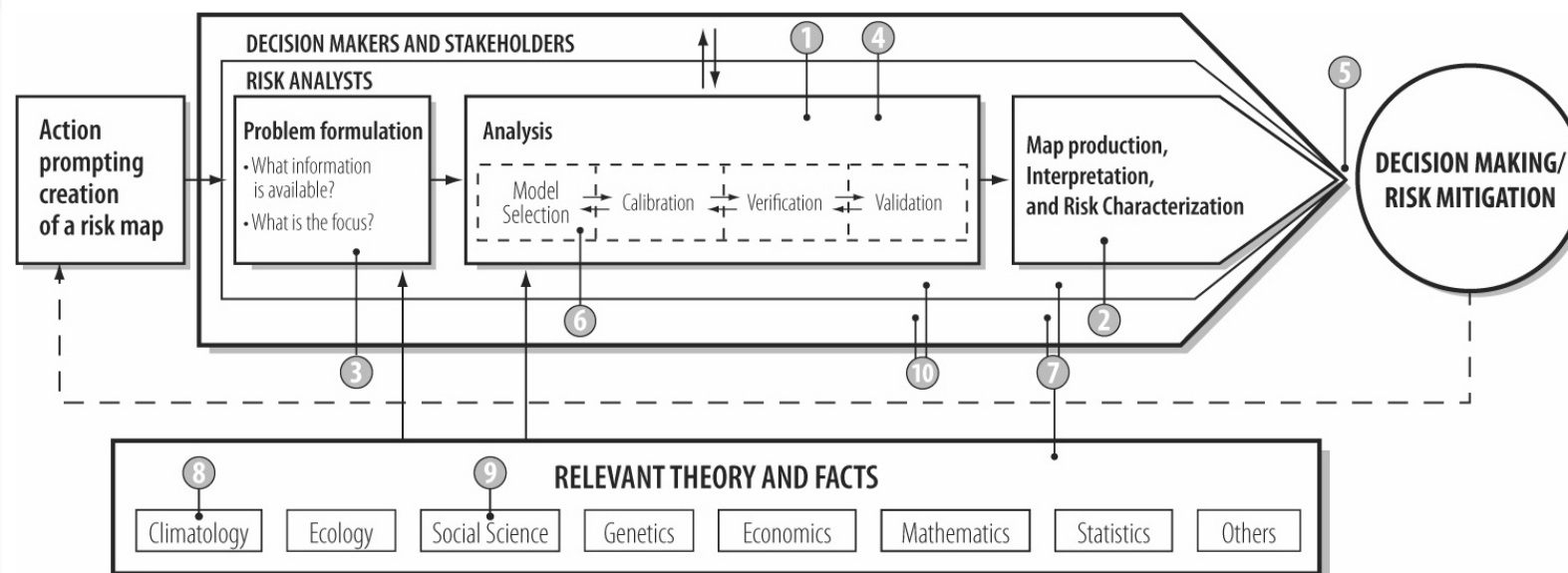
Achievements: Publications



- Pest risk maps for invasive alien species: a roadmap for improvement (Venette RC et al; 2010; *Bioscience*)
- Advancing risk assessment models to address climate change, economics and uncertainty (Kriticos DJ et al; *Neobiota* Special Issue; 2013)
- 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.**

International Advisory Group on Pest Risk Analysis



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

Current and emerging goals



- Recall the IPRRG mission:
 - *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*



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Thank you!