

## Dr Jean-Baptiste Marre

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### AREA OF EXPERTISE

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- 7 years of experience in research, technical assistance, consulting, project development and management.
- **Expertise** in environmental economics, economic valuation, ecosystem services assessment, innovative funding mechanisms, adaptation to climate change, integrated coastal management, marine conservation, ecosystem-based management.
- **Country experience:** Asia (Malaysia, Indonesia), Europe (France), Pacific (Australia, Fiji, French Polynesia, New Caledonia, Vanuatu).

### EDUCATION

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- 2010-2014*      **PhD in Economics**, Queensland University of Technology, School of Economics and Finance / Université de Bretagne Occidentale, Centre for the law and economics of the sea (AMURE).
- 2005-2009*      **Master degree in Economics of Sustainable Development, Environment and Energy**, Paris Institute of Technology for Life, Food and Environmental sciences.  
**Engineer degree**, AgroParisTech INA P-G.

### PROFESSIONAL EXPERIENCE

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- Since Aug. 14*      **Project Officer, Restauration of ecosystem services and adaptation to climate change (RESCCUE), Pacific Community (SPC), New Caledonia.**  
**Mission:** support the coordination of a 5-year, 13 million € project aiming at increasing the resilience of Pacific people and ecosystems facing climate change.
- Key functions:**
- Design and supervise project activities in Fiji, French Polynesia, New Caledonia, Vanuatu, and at the regional level;
  - Provide technical assistance on adaptation to climate change, integrated coastal management, economic analysis, innovative financial mechanisms;
  - Establish agreements and contracts with public and private project partners;
  - Ensure appropriate monitoring and evaluation, including technical and financial reporting to donors and partners;
  - Fundraise from a variety of donors to secure co-financing;
  - Ensure appropriate communication on the project and its activities in various media and at various scales.

*April. 14 - Aug. 14* **Research fellow, University of Tasmania, Australia.**  
 Marine Biodiversity Hub, National Environmental Research Program.  
**Mission:** measure public values for marine reserve networks and the effect of how information on ecosystem-based management is delivered.  
**Key functions:**

- Design, manage and monitor a survey-based research project, in collaboration with the Australian government and the University of Western Australia.

*2010-2014* **Research fellow, Université de Bretagne Occidentale, AMURE, France and Queensland University of Technology, Australia**  
 In association with CSIRO Centre for Marine and Atmospheric Research, Australia and the Ifremer, France  
**Mission:** strengthen theoretical and practical foundations of ecosystem services economic valuation and its use in coastal and marine management decision-making.  
**Key functions:**

- Design, manage and monitor a research project on estimating willingness-to-pay and non-use values associated with coastal ecosystems preservation.
- Design, manage and monitor a research project on the use of economic valuation in decision-making.
- Undertake theoretical and field research in New Caledonia and Australia.

*2010* **Research assistant, Institut de Recherche pour le Développement (IRD), France**  
**Mission:** mobilize and formalize experts' knowledge on Marine Protected Areas governance  
**Key functions:**

- Design, manage and monitor a research project on bayesian network modelling for Marine Protected Areas governance with six case studies

## CONSULTING

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*2010* **Centre of Industrial Economics (CERNA) / World Bank**

- Costs of Environmental Degradation and Genuine Savings in Madagascar, as part of the Country Environmental Analysis
- Natural capital and sustainable growth of the Central African Republic

*2011-2012* **French Initiative for Coral Reefs (IFRECOR):** socio-economic study to estimate willingness-to-pay and non-use values for coral reef preservation in New-Caledonia

## OTHER INFORMATION

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**Languages** **French** (mother language), **English** (fluent), German (working knowledge), Spanish (basic), Bahasa Indonesia (basic).

**Computer skills** Office, Stata, R, Limdep/NLogit

## **SELECTED PUBLICATIONS AND COMMUNICATIONS**

### **Articles in peer-reviewed scientific journals**

- Marre, J-B., O. Thebaud, S. Pascoe, et al. 2015. The use of ecosystem services valuation in Australian coastal zone management. *Marine Policy* 56: 117–124.
- Marre, J-B., L. Brander, O. Thebaud, et al. 2015. Non-market use and non-use values for preserving ecosystem services over time: a choice experiment application to coral reef ecosystems in New-Caledonia. *Ocean & Coastal Management* 105: 1–14.
- Marre, J-B., O. Thebaud, S. Pascoe, et al. 2015. Is economic valuation of ecosystem services useful to decision-makers? Lessons learned from Australian coastal and marine management. *Journal of Environmental Management*, under review.
- Marre, J-B., S. Pascoe, O. Thebaud, et al. 2015. Decision-maker and public preferences for ecosystem assessment indicators: a multi-criteria application to Australian coastal development. *Journal of Environmental Management*, under review.

### **Book chapters**

- Alban, F., J. Boncoeur, J-B. Marre. 2015. Governance of Seas and Oceans. Chapter 6 : Socio-economic evaluation of marine protected areas. ISTE and Wiley Editions, Edited by André Monaco and Patrick Prouzet. *Seas and Oceans Set*, 299p.

### **Reports, thesis, and working papers**

- Burton, M., S. Jennings, L. Fragnol, J-B. Marre et al. 2015. The South-east Commonwealth Marine Reserves Network - Public Knowledge, Perceptions and Values Survey. NERP Marine Biodiversity Hub, 94p.
- Marre, J-B., S. Pascoe, O. Thebaud, et al. 2014. Payment non-attendance in Discrete Choice Experiments: results from two coastal areas in New-Caledonia. Working paper.
- Marre, J-B., S. Pascoe, O. Thebaud, et al. 2014. Economic valuation in ecosystem-based management decision-making: an analytic hierarchy process application to coastal development. Working paper.
- Marre, J-B. 2014. Quantifying economic values of coastal and marine ecosystem services and assessing their use in decision-making: applications in New-Caledonia and Australia. PhD Thesis, Queensland University of Technology, Université de Bretagne Occidentale, 425p.
- Marre, J-B, N. Pascal. 2012. Valeur Economique des Récifs Coralliens et Ecosystèmes Associés de la Nouvelle-Calédonie. Partie II: Consentements à Payer pour la Préservation des Ecosystèmes et Valeurs de Non-Usage. Rapport IFRECOR, TIT Socio-Economie.
- Marre, J-B, J. Ferraris, M. Badie, et al. 2010. Using Bayesian Network modelling to cope with the Marine Protected Areas governance issue. ICES cooperative research report.
- Marre, J-B. 2009. Green national accounts theory and sustainable growth: dealing with natural capital specificities. Master thesis, MinesParisTech - AgroParisTech, 121p.

### **Selected communications**

- Marre, J-B. 2015. Climate adaptation in the South Pacific: experiences & perspectives. Science and Culture Week, Embassy of France in Fiji. The University of the South Pacific.
- Marre, J-B., O. Thébaud 2014. Assessing the relative importance of economic valuation, ecological and socio-economic ecosystem indicators: a multi-criteria application to Australian coastal development. ICES Annual Science Conference
- Marre, J-B. 2013. Non-market use and non-use values for preserving ecosystem services over time: a choice experiment application to marine ecosystems in New-Caledonia. 15th Annual BIOECON Conference 2013, Kings College, Cambridge
- Marre, J-B. 2013. Exploring the use and influence of economic valuation applied to coastal and marine ecosystems in decision-making in Australia. 6<sup>th</sup> Ecosystem Services Partnership annual conference, Bali.
- Marre, J-B. 2012. Estimating non-use values for coral reef preservation in New Caledonia. Australia New Zealand Society of Ecological Economics Conference
- Marre, J-B. 2010. Using bayesian network modelling to cope with Marine Protected Areas governance: an application to six case studies. ICES Annual Science Conference

### **Participation in selected conference**

- SPC nominated expert for the 2015 Technical workshop on ecosystem-based approaches to climate change adaptation and disaster risk reduction. Secretariat of the Convention on Biological Diversity. Johannesburg.
- Facilitator and rapporteur for the National 2012 Workshop of the French Initiative for Coral Reef economics program
- Assistant facilitator and rapporteur in the Coral Reef Initiative for South Pacific (CRISP) 2011 Workshop "Investing in coral Reef: is it worth it?"

### **Main media interviews**

- Nouvelle-calédonie 1ère. 8 June 2015. Radio interview about SPC activities and the RESCCUE project for the World Ocean Day. 5 min.
- NC TV. 04 December 2015. TV interview about climate change for the show "Les Coulisses de la Science". 15 min.