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# **A contribution to the study of the economic causes and consequences of climate change**

**An interdisciplinary approach**

Francisco Estrada

Reading committee:

prof. Roy Brouwer

prof. Siem Jan Koopman

prof. David Maddison

prof. Katrin Rehdanz

prof. Rob Wilby

"A contribution to the study of the economic causes and consequences of climate change:

An interdisciplinary approach"

PhD Thesis, VU University Amsterdam.

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Cover image: Landsat-8 satellite view over a tropical estuary area in Western Australia.

Image courtesy of NASA.

VRIJE UNIVERSITEIT

A contribution to the study of the economic causes and consequences of  
climate change:  
An interdisciplinary approach

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. F.A. van der Duyn Schouten,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Economische Wetenschappen en Bedrijfskunde  
op woensdag 1 april 2015 om 11.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Francisco Estrada Porrua

geboren te Mexico City, Mexico

promotor: prof.dr. R.S.J. Tol  
copromotoren: dr. E. Papyrakis  
prof. dr. P. Perron

*To Filo, miss you so much  
To my mother and brothers*



*" Caminante, no hay camino,  
se hace camino al andar. "*

*Antonio Machado*

*" It is in the admission of ignorance and the admission of uncertainty that there is a hope  
for the continuous motion of human beings in some direction that doesn't get confined,  
permanently blocked, as it has so many times before in various periods in the history of  
man. "*

*Richard Feynman*

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