

SpringerBriefs in Climate Studies

For further volumes:
<http://www.springer.com/series/11581>

Krishna Rao Pinninti

Climate Change Loss and Damage

Economic and Legal Foundations

 Springer

Krishna Rao Pinninti
Princeton, NJ
USA

ISSN 2213-784X ISSN 2213-7858 (electronic)
ISBN 978-3-642-39563-5 ISBN 978-3-642-39564-2 (eBook)
DOI 10.1007/978-3-642-39564-2
Springer Heidelberg New York Dordrecht London

Library of Congress Control Number: 2013943980

© The Author(s) 2014

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed. Exempted from this legal reservation are brief excerpts in connection with reviews or scholarly analysis or material supplied specifically for the purpose of being entered and executed on a computer system, for exclusive use by the purchaser of the work. Duplication of this publication or parts thereof is permitted only under the provisions of the Copyright Law of the Publisher's location, in its current version, and permission for use must always be obtained from Springer. Permissions for use may be obtained through RightsLink at the Copyright Clearance Center. Violations are liable to prosecution under the respective Copyright Law. The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

While the advice and information in this book are believed to be true and accurate at the date of publication, neither the authors nor the editors nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Preface

This Special Monograph is prepared with the purpose of laying down a few major foundations and guidelines in the current process of devising strategies, mechanisms, and providing resources for containing or mitigating loss and damage arising from sustained adverse impacts of climate change and climate variability. Whereas the UNFCCC and other entities have been preparing to offer groundwork to facilitate the processes at the international level, it is relevant to augment these efforts with additional insights. This is the attempt of this publication, with an approach of pragmatism and an objective specification of relevant frameworks for further actions.

Development of integrated approaches to the assessment and reduction of loss and damage due to climate change (including climate variability), encompassing economic, and legal dimensions is the primary objective for this Monograph. Assessment of costs (in all their dimensions) of climate change is not an objective here. Similarly, review of literature is not a part of coverage here. This publication is not expected to form a Handbook or Toolkit; this is aimed at top-level policymaking and strategy development, both in the national and international contexts. The readership includes policy analysts, researchers, and top-level policymakers. Actionable knowledge goes beyond provision of information and is thus a global public good. The development of this Monograph takes this route for further development at all levels in the interests of larger humanity.

Princeton, NJ, USA, May 17, 2013

Krishna Rao Pinninti

Contents

1	Climate Change Governance	1
1.1	Introduction	1
1.2	Mitigation, Adaptation, Disaster Reduction and Effective Governance.	2
1.3	Close Proximity of Adaptation and Disaster Reduction	3
1.3.1	Maladaptation.	5
1.4	Integrative Mechanisms for CCA and DRR	6
	Box 1: IPCC SREX (2012) Report: Some Highlights.	7
1.5	Equity and Climate Justice	8
	References	9
2	Approaches for Assessing Loss and Damage	11
2.1	Losses and Damages: Avoidable, Residual, Irreducible and Irreversible	11
2.2	Brief Background at the International Level	12
	Box 2: COP 18 Decisions on Loss and Damage	13
2.3	Trends in ‘Normalized’ Disaster Losses	13
2.4	Loss and Damage Features and Estimates.	18
2.5	Drought and Slow Onset Adverse Effects.	20
2.5.1	Slow-Onset Events	20
2.5.2	Drought	21
	References	23
3	International Environmental Law	25
3.1	Introduction	25
3.1.1	Legal Vacuum	25
3.2	Legal Foundations	26
3.3	Relevant Articles of the UNFCCC.	28
3.4	Laws for Loss and Damage	31
	References	32

4	Global Climate Finance	33
4.1	Introduction	33
4.2	Potential Sources of Additional Finance	34
4.2.1	Green Climate Fund and DRR	34
4.3	Other Measures in Climate Change Governance	35
4.3.1	Defining and Selecting Broad Segments of the Economy	35
4.3.2	Various Approaches	36
4.3.3	Carbon Leakage	36
	References	37
5	New Frameworks for Financing and Governance of Loss and Damage	39
5.1	Roles of Historic Contributions and Responsibilities	39
5.2	Effective Integration of CCA and DRR	39
5.3	Roadmap for Effective Governance	40
	References	43
6	Concluding Observations	45
	References	47
	Appendix: Role of the ICTs and ITU in CCA and DRR	49