## **TABLE OF CONTENTS**

	page
Preface	XIII
Simone Vezzani	
Section I	
THE INTERNATIONAL COMMUNITY AND THE EUROPEAN UNION IN THE FACE OF CLIMATE CHANGE	
CHAPTER I	
Climate Change and Vulnerability	
Maura Marchegiani	
<ol> <li>Introduction</li> <li>The Heterogeneity of the Notion of Climatic Vulnerability</li> <li>Identifying New Paradigms to Address the Phenomenon of Climate Change</li> <li>Ensuring the Effectiveness of International Law on Climate Change through Climate Litigation</li> <li>The Role of the Judge in Enhancing the Effectiveness of Climate Change Obligations</li> <li>Concluding Remarks</li> </ol>	3 5 9 11 15 20

		page
Сн	APTER II	
	e Climate Change Case Law of the European Court of Human hts: Vulnerability and Victim Status	
Cris	stiana Angelini	
1.	Climate Change and Human Rights	23
2.	Recent Developments in the ECtHR's Climate Case Law	24
	2.1. The Decision in the <i>Câreme</i> Case	27
	2.2. The Decision in the <i>Duarte</i> Case	27
	2.3. The KlimaSeniorinnen Judgment	28
3.	Extraterritorial Jurisdiction of the Respondent State: an "All-European"	
	Issue	29
	3.1. The Parties' Arguments on State Jurisdiction over the Applicants	30
	3.2. The Court's Assessments of Jurisdiction	31
	3.3. Critical Remarks	33
4.	The Non-Recognition of Victim Status for Natural Persons in Recent	
	Climate Cases	35
	4.1. The Special Determination of the Status of "Climate Victim" in	
	the KlimaSeniorinnen Judgment	36
	4.2. Recognition of the Standing of Associations in the KlimaSen-	
	iorinnen Judgment	39
	4.3. Considerations on the Court's Arguments on the Status of Victim	
	and the Associations' Legal Standing	41
5.	Final Remarks	44
Сн	APTER III	
	mate Change-Related Migration Under the Lens of International man Rights Law	
	none Vezzani	
3111	ione vezzani	
1	Climate Change and Human Mobility	47
2.	Terminological and Methodological Remarks	49
3.	Limited Role of Refugee Law in the Context of Climate-Induced Migra-	
	tion	51
4.	Non-Refoulement Obligations under International Human Rights Law:	
	the <i>Teitiota</i> Case and Beyond	53

		page
<ul><li>5.</li><li>6.</li><li>7.</li></ul>	<ul> <li>4.1. Violation of the Right to a Dignified Life as a Consequence of Climate Change</li> <li>4.2. Inhuman Treatments as a Consequence of Climate Change Reversing the "Strasbourg Reversal"?</li> <li>Forms of Protection Currently Afforded by Domestic Legislations: An Overview</li> <li>Forced Migrants and Climate "Non-Migrants": Climate Justice Perspectives Beyond a Human Rights Approach</li> </ul>	56 59 61 62 65
Сна	PTER IV	
	Role of a Climate-Neutral and Sustainable Blue Economy in the text of the Challenges of the European Green Deal	
Mari	ia Cristina Carta	
<ol> <li>2.</li> </ol>	The Blue Economy and the Green Deal of the EU as a Paradigm of a New "Circular" Model of Economic, Social and Environmental Development Genesis and Evolution of the Concept of Blue Economy in the Context of the Circular Economy: Environmental Protection as a Driver of Eco-	69
3. 4.	nomic and Institutional Development The Inclusion of the "Blue Dimension" within the Green Deal The Blue Economy in the Context of the UN 2030 Agenda and the EU 2030 Biodiversity Strategies and Farm to Fork: The New Frontier	73 75
5.	of Algae The EU Action Plan to Protect and Restore Marine Ecosystems for Sustainable and Resilient Fisheries	79 81
6.	The Main Financial Instruments to Achieve the EU Blue Economy: EMFAF, BlueInvest and InvestEU Blue Economy Concluding Remarks: The Blue Economy as a Driver for the Green	83
7.	Transition	85

	page
Chapter V	
The Copernicus Climate Data Store and the University of Perugia's Project on Climate Change	
Paolina Bongioannini Cerlini and Miriam Saraceni	
<ol> <li>Introduction</li> <li>The University of Perugia's Project         <ol> <li>Goals of the Project</li> </ol> </li> <li>Methods: The EU's Earth Observation Program, Copernicus and Copernicus Climate Change Service (C3S)         <ol> <li>ERA5 Climate Reanalysis and Global Data</li> </ol> </li> <li>Use of ERA5 and CDS Toolbox in the University of Perugia's Climate Project         <ol> <li>Simulating and Tracking Medicanes with Copernicus Data</li> <li>Ensemble Forecast Simulation</li> </ol> </li> <li>Conclusions</li> </ol>	89 91 93 94 95 97 100 100
SECTION II	
MARINE SPACES AND ACTORS FACING CLIMATE CHANGE	
CHAPTER VI	
Considerations on the Impact of Climate Change on the European Union's Fisheries Activities in the Mediterranean Sea	
Gabriela A. Oanta	
<ol> <li>Introduction</li> <li>The European Union, Fisheries in the Mediterranean, and the Impact of Climate Change</li> <li>The European Union's Collaboration with States and International Or- ganisations Present in the Mediterranean to Tackle Climate Change</li> </ol>	107 110 116
<ul><li>3.1. The European Union, the Mediterranean States, and the Impact of Climate Change</li><li>3.2. The European Union and the Joint FAO/ILO/IMO Programme</li></ul>	117
to Combat Illegal, Unreported and Unregulated Fishing and Related Matters	118

<b>T</b> I I		C	
Tabi	ie ot	Contents	

IX

		page
	3.3. The European Union and the Joint FAO/IMO Programme on	440
4.	Plastic Marine Litter from Ships Final Considerations	119 122
Сна	PTER VII	
Flag	s of Convenience and Protection of the Marine Environment	
José	Manuel Sobrino-Heredia	
1.	Introduction	123
2.	Internationalization of Maritime Transport and Flags of Convenience	125
	2.1. The Rise of Flags of Convenience	126
	2.2. International Legislation that Encourages the Expansion of the Flags-of-Convenience Fleet	128
3.	The Footprint of Flag-of-Convenience Vessels on the Marine Environ-	120
	ment	131
	3.1. The Exclusive Jurisdiction of the Flag State: A Weak Guarantee	
	for the Protection of the Marine Environment	132
	3.2. Intervention by Third States to Strengthen the Protection of the	
4	Marine Environment	135
4.	Final Considerations	137
Сна	PTER VIII	
The	BBNJ Agreement: Global Governance of the Oceans	
in th	e Climate Change Scenario	
Ana	Victoria Villanueva	
1.	Introduction	139
2.	Climate Change and BBNJ	140
3.	Background of the BBNJ Agreement	142
4.	Scope and Relationship between the "BBNJ Agreement" and UN-	
	CLOS, Other Existing Legal Instruments and Frameworks and Relevant	1.42
	Global, Regional and Sectoral Bodies	143
5.	4.1. Relationship between the Agreement and Existing Agreements Common Heritage of Mankind (CHM) in Marine Areas beyond Na-	144
J.	tional Jurisdiction	145
6.	International Cooperation	146

## X Table of Contents

		page
7.	Marine Genetics Resources, Including the Fair and Equitable Sharing of	
	the Benefits	146
0	7.1. Fair and Equitable Sharing of Benefits	149
8.	Area-Based Management Tools	150
9.	Predominant Role Played by the Regionalisation of Marine Areas Outside National Jurisdiction through the Relevant Legal Instruments and Frameworks and the Competent Global, Regional, Subregional and Sectoral Bodies	153
10.	Organs, Mechanisms and Funding in the New Agreement on Marine	
	Biodiversity 10.1. The Role of International Tribunal for the Law of the Sea in the	156
	BBNJ Agreement	156
11.	Conclusions	157
Сна	PTER IX	
	v Many Arctic Policies for the European Union and What Room Climate Change?	
Otta	vio Quirico	
1.	Introduction	161
2.	Climate Change and Evolving Arctic Policies	162
3.	The Development of the EU Arctic Policy	164
	3.1. From Energy Security to Sustainability	164
	3.2. Two EU Arctic Policies?	168
4.	Conclusion	171
Сна	PTER X	
Clim	nate Change and Fishing Resources: Does It Affect Seafarers?	
	a Maris Moscuzza and Gadea Eugenia Rivera	
1.	Introduction	173
2.	Climate and Biodiversity: Two Interconnected Crises	175
<i>2</i> . <i>3</i> .	South Atlantic Ocean	177
4.	Situation of Argentina	179
	4.1. Fishing Resources on the Argentine Continental Shelf	179

## Table of Contents XI

		page
	4.2. The Argentinean Fishing Fleet and the Role of the Federal Fish-	
	eries Council	181
5.	The Impact of Climate Change on Seafarers	183
6.	The Importance of Sustainable and Responsible Fishing	184
	6.1. The Role of Certification	187
7.	Situation of Sustainable and Responsible Fishing in Argentina	188
8.	The Sustainable Development Goals (SDGs) of the 2030 Agenda	190
9.	Conclusions	192