Part I Progressive Development – Human Society Can Mitigate the Negative Impacts of Aridization Due to Global Warming

1 The Past is the Key to the Future .................. 3
   Arie S. Issar

2 Present Global Warming, What Will Be Its Future Impact? ... 7
   Arie S. Issar

3 Malthusian and Neo-Malthusian Prophecies of Calamity ..... 13
   Arie S. Issar

4 The Principles of “Sustainable Development” a Result of Neo-Malthusian Conceptual Model ....................... 19
   Arie S. Issar

5 The Theoretical Basis Behind the Falsification of the Theory of Malthus and Verification of Condorcet’s Confuted Model ......................... 23
   Arie S. Issar

6 “Progressive Development” the Modern Version of Condorcet’s Conceptual Model ....................... 27
   Arie S. Issar

7 Development of Groundwater, the Fundamental Resource of Projects Based on the Principle of Progressive Development .. 33
   Arie S. Issar

8 Progressive Development by Greening the Deserts, to Mitigate Global Warming and Provide New Land and Income Resources ......................... 37
   Arie S. Issar
# Contents

## Part II Regional Investigations

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Progressive Development and Groundwater Resources of Israel</td>
<td>Arie S. Issar and Eilon Adar</td>
<td>45</td>
</tr>
<tr>
<td>10</td>
<td>The Negev Desert of Israel – A Conceptual Plan of a Progressive Development Project for an Arid Region</td>
<td>Arie S. Issar and Eilon Adar</td>
<td>57</td>
</tr>
<tr>
<td>11</td>
<td>Progressive Development in the Marine Environment</td>
<td>Menakhem Ben-Yami and Arie S. Issar</td>
<td>71</td>
</tr>
<tr>
<td>12</td>
<td>Progressive Development of New Marine Environments for the Production of Marine Vegetation</td>
<td>Amir Neori and Arie S. Issar</td>
<td>81</td>
</tr>
</tbody>
</table>

## Part III Progressive Development and Strategic Environmental Assessment

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Some Examples of Development in the Desert Belts</td>
<td>Bernhard Lucke, Iourii Nikolskii, Hendrike Helbron, and Dmytro Palekhov</td>
<td>89</td>
</tr>
<tr>
<td>14</td>
<td>Sustainability in the Desert?</td>
<td>Bernhard Lucke, Iourii Nikolskii, Hendrike Helbron, and Dmytro Palekhov</td>
<td>93</td>
</tr>
<tr>
<td>15</td>
<td>The Potential of Progressive Development</td>
<td>Bernhard Lucke, Iourii Nikolskii, Hendrike Helbron, and Dmytro Palekhov</td>
<td>95</td>
</tr>
<tr>
<td>16</td>
<td>The Feasibility of Progressive Development</td>
<td>Bernhard Lucke, Iourii Nikolskii, Hendrike Helbron, and Dmytro Palekhov</td>
<td>97</td>
</tr>
<tr>
<td>17</td>
<td>Modelling the Impact of Climate Change and Irrigation by the Geographic Law of Soil Zonality</td>
<td>Iourii Nikolskii</td>
<td>103</td>
</tr>
<tr>
<td>18</td>
<td>The Socio-Economic Framework: What Can be Learned from Earlier Failures?</td>
<td>Iourii Nikolskii, Bernhard Lucke, Hendrike Helbron, and Dmytro Palekhov</td>
<td>115</td>
</tr>
<tr>
<td>19</td>
<td>Strategic Environmental Assessment to Assess and Monitor Sustainable Resource Use in Progressive Development: Potentials and Limitations</td>
<td>Hendrike Helbron and Dmytro Palekhov</td>
<td>119</td>
</tr>
</tbody>
</table>
20 Discussion and Conclusion .......................... 131
Bernhard Lucke, Iourii Nikolskii, Hendrike Helbron, and
Dmytro Palekhov

Part IV Appendices

Appendix A
The Project in NE Kenya an Example of a Development
Project Based on Groundwater, Following the Conceptual
Model of Progressive Development ....................... 137

Appendix B
A Call for Global Action Replant the Dry Lands! ............ 145
Progressive Development
To Mitigate the Negative Impact of Global Warming on
the Semi-arid Regions
Issar, A.S. (Ed.)
2010, XV, 152 p., Hardcover
ISBN: 978-3-642-10639-2