

<<中国至2050年海洋科技发展路线>>

图书基本信息

书名：<<中国至2050年海洋科技发展路线图>>

13位ISBN编号：9787030257253

10位ISBN编号：7030257251

出版时间：2009-9

出版时间：Jianhai Xiang 科学出版社 (2009-09出版)

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页数：179

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内容概要

As one of the eighteen field-specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences , this sub-report addresses long-range planning for developing science and technology in the field of marine science. They each craft a roadmap for their sphere of development to 2050. In their entirety , the general and sub-group reports analyze the evolution and laws governing the development of science and technology , describe the decisive impact of science and technology on the modernization process , predict that the world is on the eve of an impending S&T revolution , and call for China to be fully prepared for this new round of S&T advancement. Based on the detailed study of the demands on S&T innovation in Chinas modernization , the reports draw a framework for eight basic and strategic systems of socio-economic development with the support of science and technology , work out Chinas S&T roadmaps for the relevant eight basic and strategic systems in line with Chinas reality , further detail S&T initiatives of strategic importance to Chinas modernization , and provide S&T decision-makers with comprehensive consultations for the development of S&~ innovation consistent with Chinas reality. Supported by illustrations and tables of data , the reports provide researchers , government officials and entrepreneurs with guidance concerning research directions , the planning process , and investment. Founded in 1949 , the Chinese Academy of Sciences is the nations highest academic institution in natural sciences. Its major responsibilities are to conduct research in basic and technological sciences , to undertake nationwide integrated surveys on natural resources and ecological environment , to provide the country with scientific data and consultations for governments decision-making , to undertake government- assigned projects with regard to key S&T problems in the process of socio-economic development , to initiate personnel training , and to promote Chinas high-tech enterprises through its active engagement in these areas.

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章节摘录

插图：1) Theme 1: Natural and cultural marine resource management. Include: understanding the status and trends through accurate and timely comprehensive assessment of accumulation and distribution of marine resources; forecasting the stability and sustainability of marine resources through the understanding of the relationship between the marine species and habitats of the environment; understanding possible impact from human development on the stability and sustainability of marine resources; applying advanced knowledge and technology, and benefiting from a variety of natural resources from the open ocean, coastal zone and the Great Lakes. 2) Theme 2: To improve the resilience of natural disasters. Include: understanding the occurrence of natural disasters and the mechanism and improving the forecasting ability to the future disaster events; understanding coastal and marine system responses to natural disasters to assess the future shortcomings against natural disasters; developing multi-hazard assessment and the mitigation model, policies, and strategies. 3) Theme 3: The implementation of operations at sea. Include: understanding the interaction between maritime operations and the environments; with the characteristics of influential environmental factors on marine operation, predicting the oceans state; making use of environmental impact and sea operations to improve the marine transport system. 4) Theme 4: The role of the oceans in the climate system. Include: understanding the interaction between ocean and the climate system in different regions; understanding the impact of climate variability and change on the oceans, the marine ecosystem, and the biogeochemical cycles; predicting the future climate change and its impact on the marine impact based on the understanding of the oceans. 5) Theme 5: To improve the level of ecosystem health. Include: understanding and predicting the course of nature and human activities on ecosystems; assessing the impact of various human developments on ecosystems through understanding the natural and human activity, socio-economic evaluation, and the simulation; by strengthening the understanding of marine ecosystem, applying appropriate indicators and measurements on sustainable use and effective management. 6) Theme 6: To improve the level of human health. Include: understanding the formation and development of human health-threatening marine disasters; understanding ocean-related human health risks and the potential benefits of marine resources to the human health; understanding how to use and assess marine resources, as well as how human activities can prevent the health hazards from the oceans; through understanding marine ecosystems and biodiversity, developing marine products and the biological model.

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编辑推荐

《中国至2050年海洋科技发展路线图(英文版)》由科学出版社出版。

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