



GAUTENG PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES GRADE 10 TERM 3 AND 4



TOPIC: WAVES, SOUND AND LIGHT

2014 Memoradum Term 3 Physical Science

Rahul Sharma



2014 Memorandum Term 3 Physical Science:

Open Science by Design National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today's stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps Crime, Violence, and Global Warming John Crank, Linda Jacoby, 2015-05-20 Crime Violence and Global Warming introduces the many connections between climate change and criminal activity Conflict over natural resources can escalate to state and non state actors resulting in wars asymmetrical warfare and terrorism Crank and Jacoby apply criminological theory to each aspect of this complicated web helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime Beginning with an overview of the science of global warming the authors move on to the links between climate change scarce resources and crime Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet's future *Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)* Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events National Security Implications of Climate Change for U.S. Naval Forces National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee on National Security Implications of Climate Change for U.S. Naval Forces, 2011-06-26 In response to the Chief of Naval Operations CNO the National Research Council appointed a committee operating under the auspices of the Naval Studies Board to study the national security implications of climate change for U S naval forces In conducting this study the committee found that even the most moderate current trends in climate if continued will present new national security challenges for the U S Navy

Marine Corps and Coast Guard While the timing degree and consequences of future climate change impacts remain uncertain many changes are already underway in regions around the world such as in the Arctic and call for action by U S naval leadership in response The terms of reference TOR directed that the study be based on Intergovernmental Panel on Climate Change IPCC scenarios and other peer reviewed assessment Therefore the committee did not address the science of climate change or challenge the scenarios on which the committee s findings and recommendations are based National Security Implications of Climate Change for U S Naval Forces addresses both the near and long term implications for U S naval forces in each of the four areas of the TOR and provides corresponding findings and recommendations This report and its conclusions are organized around six discussion areas all presented within the context of a changing climate

The impact of spending cuts on science and scientific research Great Britain: Parliament: House of Commons: Science and Technology Committee,2010-03-25 The pressure to be seen to be making cuts across the public sector is threatening to undermine both the Government s good record on investment in science and the economic recovery Whilst the contribution of a strong domestic science base is widely acknowledged methodological problems with quantifying its precise value to the economy mean that it is in danger of losing out in Whitehall negotiations Scientists are under increasing pressure to demonstrate the impact of their work and there is concern that areas without immediate technology applications are being undervalued The Committee believes the Government faced a strategic choice invest in areas with the greatest potential to influence and improve other areas of spending or make cuts of little significance now but that will have a devastating effect upon British science and the economy in the years to come

Assessment of Options for Extending the Life of the Hubble Space Telescope National Research Council,Division on Engineering and Physical Sciences,Aeronautics and Space Engineering Board,Space Studies Board,Committee on the Assessment of Options for Extending the Life of the Hubble Space Telescope,2005-02-28 The Hubble Space Telescope HST has operated continuously since 1990 During that time four space shuttle based service missions were launched three of which added major observational capabilities A fifth SM 4 was intended to replace key telescope systems and install two new instruments The loss of the space shuttle Columbia however resulted in a decision by NASA not to pursue the SM 4 mission leading to a likely end of Hubble s useful life in 2007 2008 This situation resulted in an unprecedented outcry from scientists and the public As a result NASA began to explore and develop a robotic servicing mission and Congress directed NASA to request a study from the National Research Council NRC of the robotic and shuttle servicing options for extending the life of Hubble This report presents an assessment of those two options It provides an examination of the contributions made by Hubble and those likely as the result of a servicing mission and a comparative analysis of the potential risk of the two options for servicing Hubble The study concludes that the Shuttle option would be the most effective one for prolonging Hubble s productive life

Coastal Lagoons in Europe Geoffrey D. Gooch,2015-07-15 Lagoons represent nearly 13% of the shoreline globally and around 5% in Europe Coastal lagoons are

shallow water bodies separated from the ocean by a barrier e.g narrow spit connected at least intermittently to the ocean by one or more restricted inlets and usually geographically oriented parallel to the shore line Coastal lagoons are flexible and usually able to cope with environmental change yet nowadays they are under threat This is partly due to climate change impacts for example sea level rise and hydro meteorological extreme events but also due to more direct human activities and pressures The book focuses on addressing these challenges through integrated management strategies seen in a land sea and science stakeholder policy perspective Pan European management challenges are seen from the context of the perspectives of Policy Environment and Modelling Four case study lagoons in different geographical locations in Europe provide examples of some of the practical experiences and results around these challenges Possible impacts on drainage basins and lagoons are introduced through integrated scenarios which were developed through a multi science and land lagoon science perspective combined with interactions and contributions from stakeholders and citizens Issues around climate change impacts on environmental conditions in both drainage basins and lagoons are also included The book derives from a collaborative EC funded project entitled Integrated Water Resources and Coastal Zone Management in European Lagoons in the Context of Climate Change comprising nine partner institutes with a wide diversity in the scientific disciplines covered Editors Ana I Lillebo University of Aveiro Portugal Per Stalnacke Bioforsk Norwegian Institute for Agricultural and Environmental Research Norway Geoffrey D Gooch University of Dundee Scotland UK **Solar Energy Update** ,1980

Environmental Issues of Deep-Sea Mining Rahul Sharma,2019-05-07 This volume discusses environmental issues associated with deep sea mining with an emphasis on potential impacts their consequences and the policy perspectives The book describes the methods and technologies to assess monitor and mitigate mining impacts on marine environments and also suggests various approaches for environmental management when conducting deep sea mining The volume brings together information and data for researchers contractors mining companies regulators and NGOs working in the field of deep sea mining Section 1 highlights the various environmental issues and discusses methods and approaches that can help in developing environmentally sustainable deep sea mining Section 2 details the results and outcomes of studies related to impact assessment of deep sea mining and proposes methods for monitoring Section 3 discusses the need and means for developing data standards and their application to deep sea mining Section 4 discusses the policies approaches and practices related to deep sea mining suggests formats for developing environmental impact statements EIS and environmental management plans EMP and describes national and international regulations for environmental management Section 5 concludes the text by putting deep sea economic activities into an environmental context and conducting techno economic analyses of deep sea mining and processing **United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018** ,

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