

Lu Wenzheng (China)

[Original: Chinese]

Personal information

Gender: Male

Date of birth: 25 June 1944

Place of birth: Chongqing, China

Academic expertise: Marine geophysics

Employer: Second Institute of Oceanography, State Oceanic Administration

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Current positions

Member, Commission on the Limits of the Continental Shelf

Professor, Research Fellow and Supervisor of Ph.D. Candidates, Second Institute of Oceanography, State Oceanic Administration

Adviser, China Ocean Mineral Resources Research and Development Association

Member, Expert Group on the Deep Sea Vehicle Technology and Equipment Project under the Chinese National High Technology Research and Development Programme

Educational background

September 1961-September 1967	Department of Geophysical Prospecting, Beijing College of Geology
September 1975-December 1976	College of Chemical Engineering, East China University of Science and Technology
September 1991-September 1992	Visiting scholar, Helmholtz Centre for Ocean Research (GEOMAR), Kiel, Germany

Professional experience

1970-1977	Seawater Desalination Centre, Second Institute of Oceanography, State Oceanic Administration
1978-present	Centre for Geology and Geophysics, Second Institute of Oceanography (served as Director of Centre from 1986 to 1990)

1996-2000	Chief scientist responsible for research into ocean mineral resource prospecting, China Ocean Mineral Resources Research and Development Association (COMRA)
1997-present	Member, Commission on the Limits of the Continental Shelf
2001-2003	Member, Expert Group on Marine Resources Exploitation Technology, China National High Technology Research and Development Programme (863 Programme)
2004-2005	Member, Expert Committee on Marine Resources and the Environment, 863 Programme
2009-present	Adviser, COMRA
2011-present	Member, Expert Group on the Deep Sea Vehicle Technology and Equipment Project, 863 Programme

Representative publications

A. Research papers:

1. Survey report on the DY95-6 and 8 Chinese ocean mineral resources exploration and research expeditions (lead author)
2. Survey report on the DY95-10 Chinese ocean mineral resources exploration and research expedition (lead author)
3. Survey report on the DY95-11 Chinese ocean mineral resources exploration and research expedition (lead author)
4. General report on the ocean mineral resources exploration and research project under the ninth five-year plan (item 02) (lead author)
5. Compilation of documents for the United Nations Commission on the Limits of the Continental Shelf (first assistant editor)
6. Report on research under the 863 Programme into key technology for multiple-use unmanned deep-sea remotely operated vehicle (ROV) systems (issue team leader)

B. Monographs:

1. *Polymetallic Nodule Deposit Geology in the China Pioneer Area of the Pacific*, Lu Wenzheng et al., China Ocean Press, 2008 (in Chinese)
2. Chapter 14: Characteristics of the distribution and control factors of polymetallic nodules in the western region of the Clarion-Clipperton Fracture Zone (China Pioneer Area), in: *Establishment of a Geological Model of Polymetallic Nodule Deposits in the Clarion-Clipperton Fracture Zone of the Equatorial North Pacific Ocean*, International Seabed Authority, 2009
3. *Outer Limits of the Continental Shelf: Interface of Law and Science* (translation), Lu Wenzheng et al., China Ocean Press, 2011 (in Chinese)
4. Chapter 6: Spatial decision support system modelling, in: Huaiyang Zhou, Lu Weizheng, *A Geological Model of Polymetallic Nodule Deposits in the Clarion-Clipperton Fracture Zone, ISA Technical Study No. 6*, International Seabed Authority, 2010

C. Representative academic articles:

1. Characteristics of magnetic lineation and tectonic evolution of the South China Sea basin, Lu Wenzheng et al., in: *Acta Oceanologica Sinica*, Vol.9, No. 1, 1987 (in Chinese)
2. Characteristics of the magnetic field of the south east Pacific and its tectonic evolution, Lu Wenzheng et al., in: *Proceedings of the First Symposium on Antarctic Research*, Shanghai Science and Technology Press, 1989 (in Chinese)
3. Variations in seafloor topography and its tectonic origin in the eastern and western parts of the Chinese pioneer area, Lu Wenzheng, in: *Proceedings of the COMRA Tenth Anniversary Symposium*, China Ocean Press, 2001 (in Chinese)
4. Characteristics of polymetallic nodule deposits in the Chinese pioneer area and the exploration strategy for the third phase, Lu Wenzheng, in: *Proceedings of the COMRA Tenth-Anniversary Symposium*, China Ocean Press, 2001 (in Chinese)
5. Characteristics of the distribution of cobalt-rich crusts in the central Pacific seamount zone and preliminary evaluation of prospects for their exploitation as resources, Lu Wenzheng, in: *Proceedings of the COMRA Tenth-Anniversary Symposium*, China Ocean Press, 2001 (in Chinese)
6. Characteristics of the distribution and control factors of polymetallic nodules in the west region of CCFZ (China Pioneer Area), Lu Wenzheng, in: *Engineering Sciences*, vol. 2, Chinese Academy of Engineering, 2004
7. Opportunities for and challenges to the exploitation of mineral resources in the international seabed area, Lu Wenzheng et al., in: *Journal of Central South University, Science and Technology*, Vol. 42, 2011 (in Chinese)