

科学家简介

## 海洋学家胡敦欣



胡敦欣，男，山东省即墨市人，1936年10月生，中国科学院海洋研究所研究员，学术委员会主任，博士生导师，青岛海洋大学兼职教授，美国 Old Dominion 大学兼职教授，1961年毕业于山东海洋学院海洋系，1966年中科院海洋研究所研究生毕业。

1979—1982年作为访问学者赴美国麻省理工学院、伍兹霍尔海洋研究所和华盛顿大学学习和研究。历、现任国际学术组织如：“国际地圈—生物圈计划”(IGBP)、“全球海洋通量联合研究”(JGOFS)和“陆海相互作用”(LOICZ)等科学委员会委员共6职。现任全球变化东亚区域研究中心副主任，JGOFS中国委员会主席，LOICZ中国委员会主席，中国海洋学会副理事长等。主要从事海洋环流、海洋与大气相互作用和多学科交叉的海洋学问题的研究。他参与了当代国际海洋学三大前沿研究——TOGA, WOCE, JGOFS的计划活动，并为我国参加和开展这三项研究做出重要贡献。发起与组织国际合作项目4项。现为中日政府间合作项目“中日东海物质通量合作研究”中方首席科学家。作为负责人承担国家“七五”和“八五”重大科技攻关课题两项，国家自然科学基金重点项目两项，中科院重大项目1项。他发展了Hidaka和Saito的沿岸上升流理论模式；发现了“在陆架上，凡有上升流的地方，海底沉积必为软泥”的规律；首次发现我国陆架中尺度涡，开创了我国中尺度涡的研究。他提出了不同于传统观点的新见解和学术论点，如：“浙江沿岸上升流的非风生性质”和“黄海冷水团环流新模式（上升流不穿过中心跃层）”等。1985年以来，致力于太平洋西部边界流研究，在太平洋发现“棉兰老潜流”，并提出太平洋西部边界流在气候变化，特别是在暖池(warm pool)形成与演化过程中起重要作用的学术观点，在国际上引起高度关注。1985年获中科院重大科技成果一等奖（第一名）；1991年获中科院自然科学二等奖（第一名）；1991年获中科院“竺可桢野外科学工作奖”奖章；1991年获“山东省科技拔尖人才”称号。在国内外学术刊物上发表学术论文80余篇。参加国际学术讨论会和学术组织会议近60次。

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### Oceanographer — Hu Dunxin

Hu Dunxin, born in October 1936 in Jimo, Shandong Province, is Research Professor, Supervisor of Ph.D candidates and Chairman of the Academic Committee of the Institute of Oceanology, Chinese Academy of Sciences (IOCAS), and is an affiliated professor of the Ocean University of Qingdao and the Old Dominion University of the United States. Graduated from the Department of Oceanography of the Shandong College of Oceanography in 1961 after 5 years' undergraduate study and from IOCAS in 1966 after 5 years' graduate study, he was/is member on six international scientific committees such as International Geosphere-Biosphere

Program (IGBP), Joint Global Ocean Flux Study (JGOFS), Lang-Ocean Interaction in the Coastal Zone (LOICZ) and so forth. He is an associate director of the Regional Research Center of East Asia for Global Change, Chairman of the Chinese JGOFS Committee, Chairman of the Chinese LOICZ Committee, Vice-President of the Chinese Society of Oceanography, etc. He is a worldwide known oceanographer with main interests in ocean circulation, air-sea interaction and inter-multidisciplinary issues in oceanography. He took part in the planning of three international programmes——TOGA, WOCE and JGOFS and made great contribution to the development of the three programmes in China, initiated and organized four international cooperative programs and is leading a China-Japan Bilateral Joint Program on Material Flux in the East China Sea. As chief scientist, he undertook and is undertaking National Major Research Programs, NSFC key Projects as well as major programs of the Chinese Academy of Sciences during the 7th Five-Year Plan and for the 8th Five-Year Plan, respectively. He generalized Hekaka's and Saito's theories on coastal upwelling to a time-dependent model of an ocean with finite depth and variable winds; discovered the law "wherever upwelling occurs on continental shelf, mud should be formed"; proposed new ideas about circulation dynamics such as the non-wind-driven character of coastal upwelling off Zhejiang Province, a new Yellow Sea Cold Water Mass-related circulation model in which there is no penetration of upwelling through the central part of the thermocline, contrary to what is traditionally believed, and so on. He has studied the western boundary current in the Pacific Ocean——since 1985, discovered the Mindanao Undercurrent (MUC), and proposed the important role of the western boundary currents in climate change, especially in the formation and evolution of the warm pool, which has drawn great attention from the international scientific community. He received the Major Science and Technology Achievement First Class Award of the Chinese Academy of Sciences (CAS) (1985), Natural Science Second Class Award of CAS (1991), Zhu Kezheng Medal of Field Experiment of CAS (1991), Outstanding Scientist from Shandong Province (1991). Published more than 80 scientific papers and attended about 60 international scientific meetings.

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本刊编辑部

Editorial Office, *Oceanologia et Limnologia Sinica*