



地球物理学报(月刊)

(DIQIU WULI XUEBAO)

2010年6月 第53卷 第6期

国家自然科学基金专项资助期刊

目 次



空间物理学·大气物理学·大地测量学

- 1247 磁暴环电流衰减率对磁层能量状态的影响
..... 徐文耀, 杜爱民

- 1256 亚暴期间电离层场向电流的分布特征——
CHAMP 卫星观测

..... 王慧,毛丹丹,马淑英, H. Luehr

- 1263 极区冬季电离层加热实验研究(三)——低电
离层分析 徐彬,王占阁,许正文,
吴振森,吴健,吴军,
薛昆,车海琴,闫玉波

- 1269 冬季太阳11年周期活动对大气环流的影响
..... 刘毅,陆春晖

- 1278 北京边界层大气污染物的垂直廓线监测与
分析 朱燕舞,刘文清,谢品华,
窦科,秦敏,司福祺

- 1284 一次北京大暴雨过程低空东南风气流形成机
制的数值研究 盛春岩,高守亭

- 1295 云闪放电通道内的粒子密度及分布特征
..... 王杰,袁萍,郭凤霞,
邵秀书,欧阳玉花,张义军

- 1302 基于GNSS网络的实时精密单点定位及精度
分析 李浩军,王解先,陈俊平,
胡丛玮,王虎

- 1308 基于服务系统的实时精密单点定位技术及应
用研究 张小红,李星星,郭斐,
李盼,王磊

海洋地球物理学(专栏)

- 1315 关于黄海深部构造的地球物理认识

..... 郝天珧,黄松,徐亚,李志伟,
张丽莉,王家林, Suh Mancheol,
Kim Kwangkee

- 1327 利用卫星长波长地球物理位场对东亚地区深
部结构的研究 Jong Sun Hwang,
Hyung Rae Kim, Mancheol Suh,
Patrick T Taylor, Jan Kutina,胡卫剑

- 1336 利用远震接收函数研究黄海周边地区的地壳
上地幔结构 Chanho Yu, Kwang-Hee Kim,
Mancheol Suh, Bongchool Suk, Paul Rydelek,
Suyoung Kang, Yongcheol Park,刘劲松

- 1344 南黄海残留盆地宏观分布特征研究
..... 黄松,郝天珧,徐亚,王贝贝

- 1354 北黄海盆地烃渗漏蚀变带“磁亮点”的识别
研究 张丽莉,郝天珧,黄晓霞,黄松,
秦静欣,涂广红,赵百民

地震学·地磁学·重力及地球动力学

- 1366 2010年青海玉树M_s7.1地震近断层地面运
动估计 许力生,邸海滨,冯万鹏,李春来

- 1374 青海地区S波分裂研究
..... 李永华,吴庆举,冯强强,张瑞青

- 1384 青藏高原腹地中新世从造山阶段向造高原阶
段的转变及其动力学机制
..... 王刚,伊海生,刘顺,沈军辉

- 1399 中天山及邻区S波分裂研究及其动力学意义
..... 江丽君,李永华,吴庆举

- 1409 华北盆地强震孕育的动力学机制研究
..... 朱守彪,张培震,石耀霖

- 1418 华北地区现今地壳运动动力学初步研究
..... 刘峡,马瑾,傅容珊,杨国华,绍志刚,郑智江

- 1428 2009年4月6日意大利拉奎拉(L'Aquila)
 M_w 6.3地震的破裂过程——视震源时间函
数方法与直接波形反演方法比较
..... 张 勇, 陈运泰, 许力生
- 1440 特定震源台站校正定位方法及在安徽霍山地
区的应用 邵 磊, 王 健, 林国庆
- 1451 黄土高原北部晚新近纪“吴起古湖”的古地磁
年代学与古环境记录
..... 孙 落, 岳乐平, 王建其, 李建星,
徐 永, 张佳音, 马 冀
- 1463 大荔人遗址黄土-古土壤剖面岩石磁学性质
研究 霍俊杰, Reidar Lovlie,
李 斌, 苏 朴
- 1475 中国东北地区重力场研究——利用改进的三

方向小子域滤波划分主构造线及大地构
造单元 张凤旭, 张兴洲, 张凤琴,
孟令顺, 薛 进



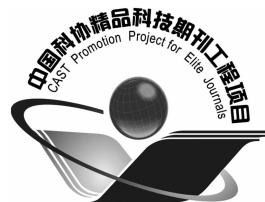
1486 奥林匹克公园地区隐伏断裂综合探测

..... 胡 平, 刘保金, 白立新, 母红旺,
张 杰, 丁彦慧, 罗华春, 冯 锐

1495 含气介质临界点、流体和骨架弹性参数的数 值计算方法

..... 牛滨华, 孙春岩, 闫国英,
杨 维, 刘 畅

1502 美国《科学引文索引(网络版)》(SCIE)2009 年中国期刊计量指标



Contents

Space physics · Atmospheric physics

- 1247 Effects of the ring current decay rate on the energy state of the magnetosphere XU Wen-Yao, DU Ai-Min
- 1256 Substorm time ionospheric field-aligned currents as observed by CHAMP ...WANG Hui, MAO Dan-Dan, MA Shu-Ying, H. Luehr
- 1263 Observations of the heating experiments in the polar winter ionosphere III—Analysis of low region XU Bin, WANG Zhan-Ge, XU Zheng-Wen, WU Zhen-Sen, WU Jian, WU Jun, XUE Kun, CHE Hai-Qin, YAN Yu-Bo
- 1269 The influence of the 11-year sunspot cycle on the atmospheric circulation during winter LIU Yi, LU Chun-Hui
- 1278 Monitoring and analysis for vertical profiles of air pollutants in boundary layer of Beijing ZHU Yan-Wu, LIU Wen-Qing, XIE Pin-Hua, DOU-Ke, QIN Min, SI Fu-Qi
- 1284 Numerical study for the formation mechanism of the southeasterly airflow for a Beijing torrential rain event SHENG Chun-Yan, GAO Shou-Ting
- 1295 The particle densities and distributions in cloud lightning channels WANG Jie, YUAN Ping, GUO Feng-Xia, QIE Xiu-Shu, OUYANG Yu-Hua, ZHANG Yi-Jun
- 1302 The realization and analysis of GNSS network based real-time precise point positioning LI Hao-Jun, WANG Jie-Xian, CHEN Jun-Ping, HU Cong-Wei, WANG Hu
- 1308 Server-based real-time precise point positioning and its application ZHANG Xiao-Hong, LI Xing-Xing, GUO Fei, LI Pan, WANG Lei

Marine geophysics

- 1315 Geophysical understandings on deep structure in Yellow Sea HAO Tian-Yao, HUANG Song, XU Ya, LI Zhi-Wei, ZHANG Li-Li, WANG Jia-Lin, Suh Mancheol, Kim Kwangkee
- 1327 Long-wavelength geopotential fields study of East Asia from satellite data Jong Sun Hwang, Hyung Rae Kim, Mancheol Suh, Patrick T Taylor, Jan Kutina, HU Wei-Jian
- 1336 Crust and upper-mantle structure beneath the region around the Yellow Sea from teleseismic receiver functions ... Chanko Yu, Kwang-Hee Kim, Mancheol Suh, Bongchoul Suk, Paul Rydelek, Suyoung Kang, Yongcheol Park, LIU Jin-Song
- 1344 Study on macro distribution of residual basin of South Yellow Sea HUANG Song, HAO Tian-Yao, XU Ya, WANG Bei-Bei
- 1354 Recognition of hydrocarbon-seepage-related magnetic anomalies in the North Yellow Sea basin ...ZHANG Li-Li, HAO Tian-Yao, HUANG Xiao-Xia, HUANG Song, QIN Jing-Xin, TU Guang-Hong, ZHAO Bai-Min

Seismology · Geomagnetism · Gravimetry and Geodynamics

- 1366 Estimation of the fault-near ground motion of the 2010 Yushu, Qinghai, M_s7.1 earthquake ...XU Li-Sheng, DI Hai-Bin, FENG Wan-Peng, LI Chun-Lai
- 1374 Seismic anisotropy beneath Qinghai province revealed by shear wave splitting ... LI Yong-Hua, WU Qing-Ju, FENG Qiang-Qiang, ZHANG Rui-Qing
- 1384 The deformation transfer from orogen stage to plateau stage in the central part of Tibetan Plateau during Miocene time and its tectonic mechanism WANG Gang, YI Hai-Sheng, LIU Shun, SHEN Jun-Hui

- 1399** The shear wave splitting of Central Tien Shan and its implications JIANG Li-Jun, LI Yong-Hua, WU Qing-Ju
- 1409** A study on the mechanisms of strong earthquake occurrence in the North China Basin ZHU Shou-Biao, ZHANG Pei-Zhen, SHI Yao-Lin
- 1418** Primary study on the dynamics of the present-day crustal motion in North China Region LIU Xia, MA Jin, FU Rong-Shan, YANG Guo-Hua, SHAO Zhi-Gang, ZHENG Zhi-Jiang
- 1428** Rupture process of 6 April 2009 L'Aquila, Italy, M_w 6.3 earthquake—a comparison between apparent source time function method and direct wave inversion method ZHANG Yong, CHEN Yun-Tai, XU Li-Sheng
- 1440** Earthquake relocations in Huoshan area, Anhui province, by applying the Source-Specific Station Term Method SHAO Lei, WANG Jian, LIN Guo-Qing
- 1451** Palaeomagnetic chronology and paleoenvironmental records of late Neogene Wuqi paleolake in northern

- Chinese Loess Plateau** SUN Lu, YUE Le-Ping, WANG Jian-Qi, LI Jian-Xing, XU Yong, ZHANG Jia-Yin, MA Ji
- 1463** Rock magnetism study on loess-paleosol profile at Dali HUO Jun-Jie, Reidar Lovlie, LI Bin, SU Pu
- 1475** Study of gravity field in Northeastern China area: Classification of main structure lines and tectonic units using the improved three-directional small subdomain filtering ... ZHANG Feng-Xu, ZHANG Xing-Zhou, ZHANG Feng-Qin, MENG Ling-Shun, XUE Jin



Geophysical Prospecting

- 1486** Synthetic exploration of the buried faults in Olympic park area HU Ping, LIU Bao-Jin, BAI Li-Xin, MU Hong-Wang, ZHANG Jie, DIN Dian-Yan-Hui, LUO Hua-Chun, FENG Rui
- 1495** Numerical calculation method for getting critical point, pore fluid and framework parameters of gas-bearing media NIU Bin-Hua, SUN Chun-Yan, YAN Guo-Ying, YANG Wei, LIU Chang