

地球物理学报(月刊)

(DIQIU WULI XUEBAO)

2018年1月 第61卷 第1期



目 次

综述

- 0001 短偏移距电磁探测技术概述 何继善, 薛国强

空间物理学·大气物理学·重力与大地测量学

- 0009 地球等离子体层顶与地磁活动的关系研究 杜沛珩, 张效信, 何飞, 蒋勇

- 0018 我国低纬电离层闪烁和周跳的统计特征比较 程洁, 徐继生, 蔡磊

- 0030 中纬度电离层 $f_o F_2$ 潮汐的变化特性 周惟琦, 余优, 万卫星, 刘立波

- 0043 考虑电子吸附效应的低电离层加热研究 成琦, 郭立新, 张丹, 李慧敏, 李江挺

- 0052 论不同模式大气中的静力适应过程 郭海龙, 刘宇迪, 董毅

- 0065 风的垂直切变对滞弹性大气中静力适应过程的影响 郭海龙, 刘宇迪

- 0080 中东太平洋热带辐合带降水统计特征及其与厄尔尼诺的相关性 朱金双, 刘宇迪

- 0091 北极海冰与夏季欧亚遥相关型年际变化的联系及对我国夏季降水的影响 张若楠, 孙丞虎, 李维京

- 0106 BCC_CSM1.1(m)模式对于夏季亚洲—太平洋涛动的模拟 单机坤, 梁潇云, 吴统文, 刘向文, 李巧萍

- 0119 利用 FG5 绝对重力仪观测数据确定重力垂直梯度 宛家宽, 罗志才, 赵珞成

地球动力学·地震学

- 0127 汤加地区地幔结构及俯冲演化的地球动力学

- 研究 张丹, 赵永红

- 0138 利用 S 波接收函数研究华南块体的岩石圈结构 张耀阳, 陈凌, 艾印双, 姜明明, 许卫卫, 申中寅

- 0150 基于波形拟合的中国东海地区 410 km 间断面附近速度结构研究 李文兰, 魏荣强, 崔清辉, 高雅健, 周元泽

- 0161 GNSS 观测的九寨沟 7.0 级地震同震位移初步结果 王阅兵, 甘卫军, 陈为涛, 游新兆, 连尉平

- 0171 四川省理县西山村滑坡运动变形过程中的微震研究 盛敏汉, 储日升, 危自根, 包丰, 郭爱智

- 0183 红河断裂带库仑应力演化及未来地震危险性估计 尹凤玲, 蒋长胜, 韩立波, 张怀, 张贝

- 0199 基于近震转换波的沉积层地区震源深度测定方法 董一兵, 倪四道, 李志伟, 孟立朋, 朱音杰, 刘新

- 0216 来自海底高速层径向波的理论地震图研究 姚陈, 郝重涛

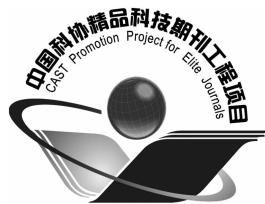
- 0230 西北太平洋海岛地区地震背景噪声特征及海洋学解释 陈栋炉, 林建民, 倪四道, 祝翔宇, 郑红

- 0242 南沙海域海底浅层第四系地震地层结构与地质意义 陈洁, 万荣胜, 张金鹏, 韩冰, 苏世龙

应用地球物理学

- 0250 基于频率衰减补偿的微地震定位方法 常旭, 李政, 王鹏, 姚振兴, 王一博, 王璐琛, 桂志先

- 0258** 基于共姿态道集的静校正方法
..... 何登科, 彭苏萍, 孙亮
- 0267** 非均匀正交各向异性特征参数地震散射反演方法研究 潘新朋, 张广智, 印兴耀
- 0284** 地震反 Q 滤波应用于碳酸盐岩储层特征描述
..... 周衍, 饶莹
- 0293** 多波地震深度学习的油气储层分布预测案例
..... 付超, 林年添, 张栋, 文博, 魏乾乾, 张凯
- 0304** 考虑动态克林伯格系数的煤储层渗透率预测模型 李立功, 康天合, 李彦斌
- 0311** 阿尔奇公式的适用性分析及其拓展
..... 张洁, 罗健, 夏瑜, 胡文亮,
..... 张国栋, 何玉春, 杨克兵
- 0323** 基于裂隙尖端放电机制的深部岩体损伤自电特征分析 刘静, 刘盛东, 曹煜
- 0331** 基于电流密度连续性条件的直流电阻率各向
- 0344** 在频率域基于小波变换和 Hilbert 解析包络的 CSEM 噪声评价 杨洋, 何继善, 李帝铨
- 0358** 基于局部相关性约束的三维大地电磁数据和重力数据的联合反演 殷长春, 孙思源,
..... 高秀鹤, 刘云鹤, 陈辉
- 0368** 双轴各向异性介质中回线源瞬变电磁三维拟态有限体积正演算法 周建美, 刘文韬,
..... 李貅, 戚志鹏, 刘航
- 0379** 套管井偶极弯曲波频散向高频偏移的特性
..... 李刚, 吕伟国, 崔志文, 马俊, 王克协,
..... 谢荣华, 刘继生, 吕秀梅
- 0389** 2017 年国家自然科学基金资助项目——地球物理与空间物理部分
..... 国家自然科学基金委员会地球科学部



CHINESE JOURNAL OF GEOPHYSICS

(Monthly) Vol. 61 No. 1 Jan., 2018

Contents

Review

- 0001 Review of the key techniques on short-offset electromagnetic detection HE JiShan, XUE GuoQiang

Space physics • Atmospheric physics • Gravity and Geodesy

- 0009 Study on the relationship between the Earth's plasmapause and geomagnetic activity DU PeiHeng, ZHANG XiaoXin, HE Fei, JIANG Yong

- 0018 A comparison of statistical features of ionospheric scintillations and cycle slips in the mid-south region of China CHENG Jie, XU JiSheng, CAI Lei

- 0030 Tidal variations of the ionospheric f_0F_2 in mid-latitude ionosphere ZHOU WeiQi, YU You, WAN WeiXing, LIU LiBo

- 0043 Study on heating of the lower ionosphere taking the attachment effect into account CHENG Qi, GUO LiXin, ZHANG Dan, LI HuiMin, LI JiangTing

- 0052 The hydrostatic adjustment in different patterns of the atmosphere GUO HaiLong, LIU YuDi, DONG Yi

- 0065 The effect of wind vertical shear on the hydrostatic adjustment process in the anelastic atmosphere GUO HaiLong, LIU YuDi

- 0080 Statistical characteristics of ITCZ precipitation in the central-eastern Pacific and its correlation with El Niño ZHU JinShuang, LIU YuDi

- 0091 Relationship between the interannual variations of Arctic sea ice and summer Eurasian teleconnection and associated influence on summer precipitation over China ZHANG RuoNan, SUN ChengHu, LI WeiJing

- 0106 Simulation of the Asian-Pacific Oscillation using the BCC_CSM1.1(m) model SHAN JiKun,

- LIANG XiaoYun, WU TongWen, LIU XiangWen, LI QiaoPing

- 0119 Determining vertical gradients of gravity by observations of the FG5 absolute gravimeter WAN JiaKuan, LUO ZhiCai, ZHAO LuoCheng

Geodynamics • Seismology

- 0127 Geodynamic study on mantle structure and subduction evolution in the Tonga area ZHANG Dan, ZHAO YongHong

- 0138 Lithospheric structure of the South China Block from S-receiver function ZHANG YaoYang, CHEN Ling, AI YinShuang, JIANG MingMing, XU WeiWei, SHEN ZhongYin

- 0150 Velocity structure around the 410 km discontinuity beneath the East China Sea area based on the waveform fitting method LI WenLan, WEI RongQiang, CUI QingHui, GAO YaJian, ZHOU YuanZe

- 0161 Coseismic displacements of the 2017 Jiuzhaigou M 7.0 earthquake observed by GNSS: Preliminary results WANG YueBing, GAN WeiJun, CHEN WeiTao, YOU XinZhao, LIAN WeiPing

- 0171 Study of microseismicity caused by Xishancun Landslide deformation in Li county, Sichuan Province SHENG MinHan, CHU RiSheng, WEI ZiGen, BAO Feng, GUO AiZhi

- 0183 Seismic hazard assessment for the Red River fault: insight from Coulomb stress evolution YIN FengLing, JIANG ChangSheng, HAN LiBo, ZHANG Huai, ZHANG Bei

- 0199 Resolving focal depth based on local converted seismic waves in sedimentary regions DONG YiBing, NI SiDao, LI ZhiWei, MENG LiPeng, ZHU YinJie, LIU Xin

0216 A study of the synthetic seismograms for radial waves recorded at seafloor in the presence of a high-speed layer
..... YAO Chen, HAO ChongTao

0230 Characteristics of seismic noise on ocean islands in Northwest Pacific and its oceanographic interpretation
..... CHEN DongLu, LIN JianMin, NI SiDao,
ZHU XiangYu, ZHENG Hong

0242 Seismic stratigraphic structure of shallow seabeds around Nansha Islands and geological implications
..... CHEN Jie, WAN RongSheng, ZHANG JinPeng,
HAN Bin, SU ShiLong

Applied geophysics

0250 Micro-seismic location based on frequency attenuation compensation CHANG Xu, LI Zheng,
WANG Peng, YAO ZhenXing, WANG YiBo,
WANG LuShen, GUI ZhiXian

0258 A static correction method based on common attitude gathers ... HE DengKe, PENG SuPing, SUN Liang

0267 Seismic scattering inversion for anisotropy in heterogeneous orthorhombic media PAN XinPeng,
ZHANG GuangZhi, YIN XingYao

0284 Seismic inverse Q filtering for carbonate reservoir characterization ZHOU Yan, RAO Ying

0293 Prediction of reservoirs using multi-component seismic data and the deep learning method FU Chao,
LIN NianTian, ZHANG Dong, WEN Bo,
WEI QianQian, ZHANG Kai

0304 Prediction model of permeability in coal reservoirs

considering the dynamic Klinkenberg coefficient
..... LI LiGong, KANG TianHe, LI YanBin
0311 Limitation analysis and modification of the Archie equation ZHANG Jie, LUO Jian, XIA Yu,
HU WenLiang, ZHANG GuoDong, HE YuChun,
YANG KeBing

0323 Self-potential characteristics in deep rock mass damage based on point discharge mechanism

..... LIU Jing, LIU ShengDong, CAO Yu

0331 3D modeling of direct-current anisotropic resistivity using the adaptive finite-element method based on continuity of current density REN ZhengYong, QIU LeWen,
TANG JingTian, ZHOU Feng, CHEN ChaoJian,
CHEN Huang, HU ShuangGui

0344 A noise evaluation method for CSEM in the frequency domain based on wavelet transform and analytic envelope YANG Yang, HE JiShan, LI DiQuan

0358 3D joint inversion of magnetotelluric and gravity data based on local correlation constraints

... YIN ChangChun, SUN SiYuan, GAO XiuHe,
LIU YunHe, CHEN Hui

0368 Research on the 3D mimetic finite volume method for loop-source TEM response in biaxial anisotropic formation
..... ZHOU JianMei, LIU WenTao, LI Xiu,
QI ZhiPeng, LIU Hang

0379 Characteristics of dipole flexural wave dispersion shift to the high-frequency in cased hole LI Gang,
LÜ WeiGuo, CUI ZhiWen, MA Jun, WANG KeXie,
XIE RongHua, LIU JiSheng, LÜ XiuMei