

地 震 研 究

2025 年 10 月

第 48 卷

第 4 期

总第 216 期

重力场及其变化观测与地球科学应用专辑 目 次

中国大陆地震流动重力观测研究综述

…………… 胡敏章, 陈 石, 祝意青, 徐新禹, 周江存, 郝洪涛, 黄江培, 刘 东 (531)

交叉梯度约束的地震走时与重力联合反演方法研究 …………… 谭 智, 姜金钟, 石 磊, 李永华 (550)

台湾海峡及其邻区重力异常小波多尺度分析 …………… 陈灵茜, 徐新禹, 赵永奇, 田子涵, 赵思敏 (561)

2022 年四川泸定 $M_s 6.8$ 地震前重力场变化及其孕震机理分析

…………… 隗寿春, 祝意青, 赵云峰, 刘 芳, 姜永涛, 刘金钊, 郑 兵 (572)

郯庐断裂带中南段重力场变化与重力异常关系的探讨

…………… 孙鸿博, 梁 霄, 王季雨, 肖伟鹏, 陆元超, 孙伯乐,
严 吉, 周 志, 徐如刚, 储 飞 (584)

贺兰山—银川地堑重力异常小波多尺度特征及构造含义 …………… 何 辛, 姬计法, 李勇江, 冯建林 (594)

有限均质椭球体模型重力及梯度异常正演计算方法研究

…………… 王季雨, 孙鸿博, 梁 霄, 倪红玉, 黄显良, 李文尧, 韩润生 (602)

南北地震带强震前时变重力水平梯度时空趋势分析 …………… 于 飞, 吴桂桔, 郝洪涛 (612)

1996 年丽江 $M_s 7.0$ 地震前后滇西地震预报实验场重力场时空演化特征

…………… 王 斌, 黄江培, 杨 雄, 祝意青, 隗寿春, 李 岩, 徐佰翔, 刘 蜀, 苏晓明 (623)

强震前重力变化数据重构及视密度反演——以 2021 年漾濞 6.4 级地震为例

…………… 徐声鑫, 黄江培, 郑秋月, 曹 颖, 吴宇琴 (631)

基于重力场与 InSAR 的 2021 年青海玛多 $M_s 7.4$ 地震形变特征研究

…………… 于 博, 张庆云, 李勇江, 徐顺强, 杨利普 (641)

不同平差方法分析山西地区重力场的变化特征

…………… 李勇江, 冯建林, 何 辛, 刘冬阳, 姬计法, 董 磊 (650)

辽宁地区时变重力场源变化数据质量评价

…………… 翟丽娜, 刘华建, 黄江培, 李彤霞, 杨牧萍, 李宇彤, 底欣欣 (658)

弹簧重力仪在亚地震频段和潮汐频段的重力噪声水平对比分析研究

…………… 江 颖, 李 响, 张晓彤, 刘子维, 刘清超, 周 浩 (665)

昆明地震监测中心站 gPhone 连续重力数据 DF 频段信号异常变化特征与干扰分析

…………… 黄 雅, 韦 进, 申重阳, 段 毅, 方 伟 (674)

基于流动重力控制的 gPhone 重力仪漂移修正方法研究

…………… 张 源, 崔庆谷, 黑贺堂, 黄江培, 周文敏, 字承柱, 陈 阳 (685)

测段数量对相对重力仪性能试验的影响分析 …………… 康胜军, 何志堂, 赵 丕, 汪 健, 史志刚 (693)

2024 年度中国大陆构造环境监测网络绝对重力仪系统偏差与观测精度分析

…………… 祝 杰, 韩宇飞, 王嘉沛, 徐 欣, 张新林, 白 磊, 康胜军 (702)

学术主编: 胡敏章 客座主编: 祝意青 陈 石 徐新禹 周江存 刘代芹 学术编辑: 黄江培 武晓芳

责任编辑: 宗云婷 编 辑: 武晓芳 张晓曼 郝 洁 余庆坤 英文译校: 余庆坤

[期刊基本参数] CN53 - 1062/P * 1978 * q * A4 * 181 * zh * P * ¥10.00 * 1000 * 18 * 2025 - 10 * d

JOURNAL OF SEISMOLOGICAL RESEARCH

Vol. 48 No. 4 Series No. 216 October, 2025

CONTENTS

- Review on Repeated Gravimetry and Research for Earthquake Monitoring in China
..... HU Minzhang, CHEN Shi, ZHU Yiqing, XU Xinyu, ZHOU Jiangcun,
HAO Hongtao, HUANG Jiangpei, LIU Dong (549)
- Joint Inversion Method for Seismic Body Wave Traveltime and Gravity Data Based on Structural Constraint
..... TAN Zhi, JIANG Jinzhong, SHI Lei, LI Yonghua (560)
- Study on the Gravity Anomalies in the Taiwan Straits and Its Vicinity Based on Wavelet Multi – scale Analysis
..... CHEN Lingqian, XU Xinyu, ZHAO Yongqi, TIAN Zihan, ZHAO Simin (571)
- Gravity Filed Variation before the Luding, Sichuan M_s 6.8 Earthquake in 2022 and Its Seismogenic Mechanism
..... WEI Shouchun, ZHU Yiqing, ZHAO Yunfeng, LIU Fang, JIANG Yongtao, LIU Jinzhao, ZHENG Bing (583)
- Exploration of the Relationship between the Gravity Field Changes and the Gravity Anomalies in the Middle-southern Section
of the Tancheng-Lujiang Fault Zone SUN Hongbo, LIANG Xiao, WANG Jiyu, XIAO Weipeng, LU Yuanchao,
SUN Bole, YAN JI, ZHOU Zhi, XU Rugang, CHU Fei (593)
- Multi – scale Wavelet Features and Tectonic Implications of the Gravity Anomaly in the Helanshan – Yinchuan Graben
..... HE Xin, JI Jifa, LI Yongjiang, FENG Jianlin (601)
- Research on Forward Calculation Method of Gravity and Gradient Anomalies of Finite Homogeneous Ellipsoid Model
..... WANG Jiyu, SUN Hongbo, LIANG Xiao, NI Hongyu, HUANG Xianliang, LI Wenyao, HAN Runsheng (611)
- Analysis of the Temporal and Spatial Trends of the Time – varying Gravity Field Prior to Strong Earthquakes on the North – South
Seismic Belt YU Fei, WU Guiju, HAO Hongtao (622)
- Spatio – temporal Characteristics of the Gravity Field in the West Yunnan Earthquake Test Site Area before and after the Lijiang
 M_s 7.0 Earthquake in 1996 WANG Bin, HUANG Jiangpei, YANG Xiong, ZHU Yiqing, WEI Shouchun,
LI Yan, XU Baixiang, LIU Shu, SU Xiaoming (630)
- Reconstruction of Relative Gravity Data and Inversion of Apparent Density: A Case Study of the 2021 Yangbi M_s 6.4 Earthquake
..... XU Shengxin, HUANG Jiangpei, ZHENG Qiuyue, CAO Ying, WU Yuqin (640)
- Research on the Deformation features of the 2021 Maduo M_s 7.4 Earthquake Based on the Gravity Field and InSAR
..... YU Bo, ZHANG Qingyun, LI Yongjiang, XU Shunqiang, YANG Lipu (649)
- Analysis of Shanxi Gravity Field and Its Variation Characteristics Using Different Adjustment Methods
..... LI Yongjiang, FENG Jianlin, HE Xin, LIU Dongyang, JI Jifa, DONG Lei (657)
- Evaluation of the Data Quality of the Time-varying Gravity Field Source in Liaoning
..... ZHAI Lina, LIU Huajian, HUANG Jiangpei, LI Tongxia, YANG Muping, LI Yutong, DI Xinxin (664)
- Comparative Analysis of the Gravity Noise Levels of Three Different Types of Gravimeters in Seismic Sub-frequency Band and Tidal
Frequency Band JIANG Ying, LI Xiang, ZHANG Xiaotong, LIU Ziwei, LIU Qingchao, ZHOU Hao (673)
- Abnormal Variation Characteristics and Interference Analysis of DF Band Signal in gPhone Continuous Gravity Data at Kunming
Earthquake Monitoring Centre Station HUANG Ya, WEI Jin, SHEN Chongyang, DUAN Yi, FANG Wei (684)
- Research on gPhone Gravimeter Drift Correction through Mobile Gravity Data Control
..... ZHANG Yuan, CUI Qinggu, HEI Hetang, HUANG Jiangpei, ZHOU Wenmin, ZI Chengzhu, CHEN Yang (692)
- Analysis of the Influence of the Number of Gravimetric Sections on the Performance Test of the Relative Gravimeter
..... KANG Shengjun, HE Zhitang, ZHAO Pi, WANG Jian, SHI Zhigang (701)
- Analysis on Systematic Deviation and Observation Accuracy of Absolute Gravimeters in the Crustal Movement Observation Network
of China in 2024 ZHU Jie, HAN Yufei, WANG Jiawei, XU Xin, ZHANG Xinlin, BAI Lei, KANG Shengjun (711)
-