

气象水文海洋仪器

主办单位：中国仪器仪表学会气象水文海洋仪器分会 长春气象仪器研究所

METEOROLOGICAL, HYDROLOGICAL AND MARINE INSTRUMENTS



3

2013

第30卷
(总107期)

ISSN 1006-009X



10>

9 771006 009007

气象水文海洋仪器

第30卷 第3期(总第107期)

2013年9月

目 次

研究与探讨

- 海洋地震径向波的模拟研究 翟继峰, 韦成龙, 曾宪军 (1)
水文缆道的信号传输研究 刘泽文, 韩友平 (5)
基于 QN 混合风场和 SWAN 模式的一次冷空气海浪场模拟分析 刘铁军, 郑崇伟, 周林, 等 (8)
激光风速标准器量值溯源装置研制 梁婧, 贺晓雷, 张国玉 (13)
雷电单站定位原理与关键技术 李云, 江志东, 刘志田 (17)
海洋环境对水下运动目标性能影响分析 宋蕾, 程琛 (23)
山洪地质灾害气象应急保障物流系统的探讨 郎东梅, 邵楠, 高玉春 (27)
JKZ1型探空仪检测箱干湿球温度校准装置的探讨 陈华 (30)

设计与应用

- 基于 GIS 的人工影响天气指挥系统设计 杨雷斌, 杨梅, 易永力, 等 (33)
基于 .NET 框架的气象装备保障信息管理系统 王磊, 肖路, 杨涛, 等 (38)
L 波段雷达站的供电和防火系统设计 彭勃, 杨小民, 杨忠全, 等 (43)
利用无线网卡实现气象报文的备份传输 钱毅, 董德宝, 赵宝义, 等 (45)
三维成像声纳 BV5000 在水下测绘领域中的应用 时振伟, 刘翔, 张建峰, 等 (48)
GPS-RTK 测量技术在水文测量中的应用 黄毅 (53)
气候观测综合计量检定装置用户系统设计 陈平, 南雪景 (56)
多路温度传感器自动检定系统 蒋涛, 王硕飞, 盛高珊, 等 (61)
C8051F020 片上系统实现多倍周期测量频率的方法 张宇翔 (64)
县级防汛预警信息发布平台的设计 王晓默, 董宁, 李景龙 (67)
地面气象观测站场室防雷改造 李进, 阮志文 (70)

维护与维修

- CINRAD/CC 天气雷达调速管的更换及调整方法 张春雷, 刘涛 (75)
与回扫充电相关的 714CDN 天气雷达高压故障分析 王刚 (78)
DSC2 型称重式降水传感器的电源扰动及解决办法 李林, 常晨, 张曼, 等 (82)
自动气象站的故障排除及异常记录处理 陈英, 谢万银 (86)
CINRAD/SA 雷达接收机故障个例分析与处理 姚文, 刘志邦, 王浩宇, 等 (91)

综述

- 张掖气象站新旧站址对比观测资料分析 庞成, 阙龙凯, 王伏村 (93)
北京自动站数据流程及业务应用情况分析 孙成云, 宋巧云, 梁丰, 等 (98)
全国地面气象观测技能竞赛考点分析 施丽娟, 张雪芬, 杨志彪, 等 (102)
石家庄地区日照时数的时空变化特征分析 齐晓华, 张翠华, 侯晓玮 (106)
DNZ1型土壤水分仪业务检定中超差站点原因分析 费启琳 (110)
景德镇市大雾天气特征分析 余欣, 陈鲍发 (113)
气象计量实验室量值比对、能力验证的意义 张红英, 王少辉, 武向娟, 等 (118)
江苏省近 50a 近地面风速及气温的时空分布特征分析 程思, 陈鹏, 苗峻峰 (121)
江西区域强对流气候特点及云型分析 柳守煜, 陈鲍发 (125)

- 征稿简则 (52)
可搭载式剖面漂流平台浮标 (扉1)
C-argo 刨面探测浮标 (扉2)

Meteorological, Hydrological and Marine Instruments

Vol. 30 No. 3 (Sum. 107)

September 2013

Contents

Research and Discussion

- Simulation study on radial wave in oceanic earthquake Zhai Jifeng, Wei Chenglong, Zeng Xianjun (1)
Study on signal transmission of hydrometric cableway Liu Zewen, Han Youping (5)
Analysis on a cold air wave by using QN mixed wind data and SWAN model Liu Tiejun, Zheng Chongwei, Zhou Lin, et al. (8)
Development on value traceability device of laser wind speed standards Liang Jing, He Xiaolei, Zhang Guoyu (13)
Principle and key technology of single-station lightning location Li Yun, Jiang Zhidong, Liu Zhitian (17)
Effect of marine environment on the performance of underwater moving object Song Lei, Cheng Chen (23)
Meteorological emergency security logistics system for flash flood geological disasters Lang Dongmei, Shao Nan, Gao Yuchun (27)
Calibration device for wet and dry bulb temperature of JKZ1 radiosonde detection box Chen Hua (30)

Design and Application

- Weather modification command system based on GIS Yang Leibin, Yang Mei, Yi Yongli, et al. (33)
Information management system of meteorological equipment based on .NET framework Wang Lei, Xiao Lu, Yang Tao, et al. (38)
Power supply and fire protection system of L-band radar station Peng Bo, Yang Xiaomin, Yang Zhongquan, et al. (43)
Backup transmission for meteorological messages based on wireless network card Qian Yi, Dong Debao, Zhao Baoyi, et al. (45)
Application of 3D imaging sonar BV5000 in underwater measurement Shi Zhenwei, Liu Xiang, Zhang Jianfeng, et al. (48)
Application of GPS-RTK measuring technique in hydrographic measurement Huang Yi (53)
User system of climate observation metrological verification device Chen Ping, Nan Xuejing (56)
Automatic verification system of multiplex temperature sensor Jiang Tao, Wang Shuofei, Sheng Gaoshan, et al. (61)
Frequency measurement of C8051F020 chip based on the multi-period method Zhang Yuxiang (64)
Design of early warning information release platform for county level flood control Wang Xiaomo, Dong Ning, Li Jinglong (67)
Lightning protection reformation for observation room of surface meteorological observation station Li Jin, Ruan Zhiwen (70)

Maintenance and Repair

- Replacement and adjustment method for the klystron of CINRAD/CC weather radar Zhang Chunlei, Liu Tao (75)
Fault analysis on high voltage of 714CDN weather radar related in the flyback charging Wang Gang (78)
Solutions on power disturbances of DCS2 weighing gauge Li Lin, Chang Chen, Zhang Man, et al. (82)
Troubleshooting and abnormal record processing of automatic weather station Chen Ying, Xie Wanyin (86)
A case analysis on the faults of CINRAD/SA radar receiver Yao Wen, Liu Zhibang, Wang Haoyu, et al. (91)

Summary

- Comparative analysis on observation data between the new and old weather station in Zhangye Pang Cheng, Que Longkai, Wang Fucun (93)
Data flow and business application of Beijing automatic weather station Sun Chengyun, Song Qiaoyun, Liang Feng, et al. (98)
Key points of national surface meteorological observation competition Shi Lijuan, Zhang Xuefen, Yang Zhibiao (102)
Temporal and spatial variation characteristics of sunshine hours in Shijiazhuang area Qi Xiaohua, Zhang Cuihua, Hou Xiaowei (106)
Reason analysis on the over proof site in the operation verification of DNZ1 soil moisture meter Fei Qili (110)
Analysis on synoptic characteristics of dense fog in Jingdezhen City Yu Xin, Chen Baofa (113)
Measure comparison and proficiency testing on meteorological metrological laboratory Zhang Hongying, Wang Shaohui, Wu Xiangjuan, et al. (118)
Spatial and temporal characteristics of surface wind speed in the last 50 years over Jiangsu Province Cheng Si, Chen Peng, Miao Junfeng (121)
Climatic characteristics of regional severe convection and cloud patterns analysis in Jiangxi Province Liu Shouyu, Chen Baofa (125)

(英文编辑:王明蕊)