

Development of electric balance onboard CHIKYU

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Weighing sample material is a basic experiment for all scientific measurements. However ship vibration and vacillation seriously affect data quality of sample weighing since the vibration and vacillation cause change of gravitational acceleration. Therefore, it is serious issue to weigh precisely and accurately geological samples on a ship. Based on the awareness, electric balances onboard scientific vessel have been developed by CDEX. In this presentation, hardware configuration and data analysis algorism of the onboard electric balance will be discussed, and data quality of the balance will be evaluated.