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Comprehensive sampling campaign during massive algal bloom

Within the scope of the ninth sampling campaign an interdisciplinary team of [TZW](#), [KIT](#), [Hydroisotop](#) and [IWW](#) traveled to China for further field studies at lake Tai. Water samples were taken at 30 locations at the lake, the artificial wetlands at Gonghu- and Zhushan Bay and from three drinking water plants. Besides raw and drinking water, also process water was sampled as basis for a comprehensive assessment of drinking water treatment. In addition to the water samples, sediment cores were taken from Taihu. The BIOLIFT, a multi-sensor system monitoring eight different physicochemical parameters, was installed on a first demonstration set-up of the planned measuring buoy during the campaign. The aim of the extensive measuring campaign was to provide an expanded data base on the ecological status of water and sediment. The campaign was accompanied by a massive algae bloom, which illustrates the need for a sustainable water management. The team would like to thank the Chinese partners of the Universities of Jiangnan and Tongji, CRAES and NIGLAS for greatly supporting the campaign and is looking forward to a further intensive cooperation.

极端性蓝藻水华爆发期间的全面采样工作

来自德国燃气与水工业协会-水处理工艺中心 ([TZW](#))、卡尔斯鲁厄理工学院 ([KIT](#)) [Hydroisotop](#) 有限公司及莱茵威斯特法伦水研究所 ([IWW](#)) 的跨专业团队赴华，在太湖进行第九轮采样调研工作。研究团队分别从湖体、贡湖湾和竹山湾人工湿地及三家自来水管厂的共 30 个点采集了水样。除了原水和饮用水外，也对工艺用水进行了采样，以此作为全面评估饮用水处理过程的基础。除水样外还乘船从太湖采集了岩芯泥样。此外还在 BIOLIFT 驻期内，首次示范性安装了浮标监测设备的多参数传感器系统，对八项不同的物理-化学指标进行监测。此次全面采样监测工作的目的是扩充水、泥生态状况方面的数据基础，为全面性的评估奠定基础。采样活动伴以大规模爆发的蓝藻水华，该状况凸显了实施可持续性水环境管理的必要性。德方团队对来自[江南大学](#)、[同济大学](#)、[中国环科院](#)及[中科院南京地理湖泊研究所](#)的伙伴提供的全面支持表示感谢并期待进一步深化双方合作。

