

GEOSCIENCES AND REMOTE SENSING

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GEOCHEMISTRY, ENVIRONMENTAL CHEMISTRY AND ATMOSPHERIC CHEMISTRY

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Integration of remote sensing in IRI'S climate and environmental monitoring activities for food security, human health and disaster management

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Inter-annual and seasonal climate variability influences the physical and biological environment and provokes changes that threaten socio-economic systems and livelihoods. Food security and health are prime examples where drought, or flooding, can have profound implications for vulnerable populations in the developing world. Information on these changes is useful for the operational agencies that try to mitigate the adverse impacts of such events. The aim of this presentation is to show how remote sensing is used at IRI to monitor rainfall, vegetation, dust, and temperature and how these products are integrated into Early Warning Systems for food security, human health and disaster management. The operational use of these products by UN agencies, Ministries of Health and Agriculture in Africa, Asia, and Latin America will be demonstrated.

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