

e-Science for the Masses: Asia Pacific Regional Collaborations on Disaster Mitigation

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By means of e-Science resources and collaboration framework, the Disaster Mitigation Competence Centre (DMCC) is aiming to improve strategy of prevention and reduction of disasters. Three categories of regional focused hazards are targeted, which include the earthquake and tsunami, extreme weather and environmental changes. DMCC will create virtual research environments with embedded services and simulations that enable the sharing of disaster-related data, tools, applications and knowledge among field-workers, scientists, and e-infrastructure experts, shortening the time to respond to natural disasters. Through the DMCC, for example, potential tsunami sources would be spotted for better preparedness. Understanding of multi-scale nature of tropical cyclones for generating local heavy rainfall events is improved. Impact analysis capability of urban heat island effect on precipitation will be built up. In the end, the regional e-Infrastructure offerings to data and knowledge services and simulation services for disaster mitigation are much enhanced.

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