

Q140-012

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Onshore sedimentation and erosion due to 2007 Cyclone Sidr in Sundarban East, Bangladesh

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Cyclone Sidr is the fourth named storm of the 2007 North Indian Ocean cyclone season. The storm formed in the central Bay of Bengal, and quickly strengthened to reach peak sustained winds of 215 km/h (135 mp/h), which would make it a Category-4 equivalent tropical cyclone on the Saffir-Simpson Scale. The storm eventually made landfall near Bangladesh on November 15 and caused large- scale evacuations in Bangladesh. So far, 3,447 deaths have been blamed on the storm, with that number expected to rise.

On January 11-12, 2008, we had a chance to visit Sundarban East, Bangladesh and described onshore erosion and sedimentation due to storm surges of this cyclone. In generally, we guess huge inundation, erosion and sedimentation are similar phenomena due to tsunamis such as 2005 Indian Ocean tsunami, but these scales are very different between tsunamis and storm surges.