

Damage in Sendai Areas Reported by Dr. Daiki Sato

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20110324 Summary by Shunsuke Otani, University of Tokyo

Dr. Daiki Sato happened to visit his home at the time of earthquake and investigated the damage in the affected areas and provided his photos to AIJ Kanto Chapter Damage Investigation Committee. Dr. Sato and Professor Kitamura kindly allowed Otani to quote his photos herein.

(1) Miyagi Agricultural High School, Natori City (March 20)

Natori Ciity is located approximately 12 km to the south of Sendai, and 7 km to the north west of Sendai Airport, Miyagi Prefecture. The high school is located 4 km to the east south east of the Natori City Municipal Office, and only 1 km from the coast line.



Photo 1: Campus after the tsunami attack



Photo 2: Entrance damaged by the tsunami



Photo 3: Broken windows in the 1-st story (north face of the South Building)



Photo 4: North face of the Central Building (the tsunami reached approx. 1 m above the first story windows)



Photo 5: South face of the North Building



Photo 6: North face of the North Building



Photo 7: Inside of the North Building



Photo 8: Inside of the Central Building

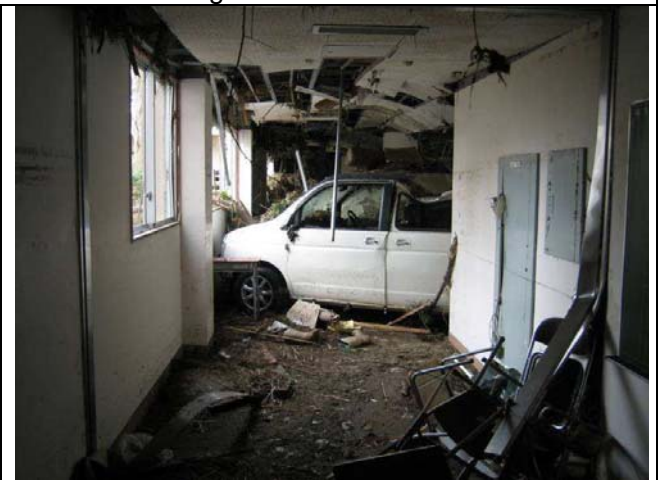






Photo 9: Gymnasium Building



Photo 10: Gymnasium for military arts (No lighting fixture fell)



Photo 11: Dormitory Building

(2) Damage of Commercial Buildings, Natori City (March 12 to 20)

Dr. Sato visited 11 commercial buildings in Natori City.



Photo 1: Exterior overall view of Building 1



Photo 2: Fall of ceiling (Building 1)

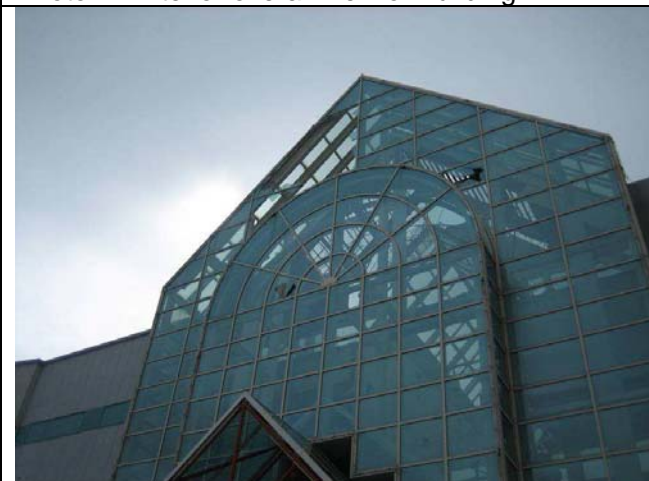


Photo 3: Drop of exterior glasses



Photo 4: Breakage of ALC (autoclaved light-weight concrete) panel (Building 2)





Photo 5: Building 3



Photo 6: Building 4



Photo 7: Building 5



Photo 8: Building 6



Photo 9: Building 8



Photo 10: Building 9



Photo 11: Building 10



Photo 12: Fall of exterior panel to parking lot



Photo 13: Building 11

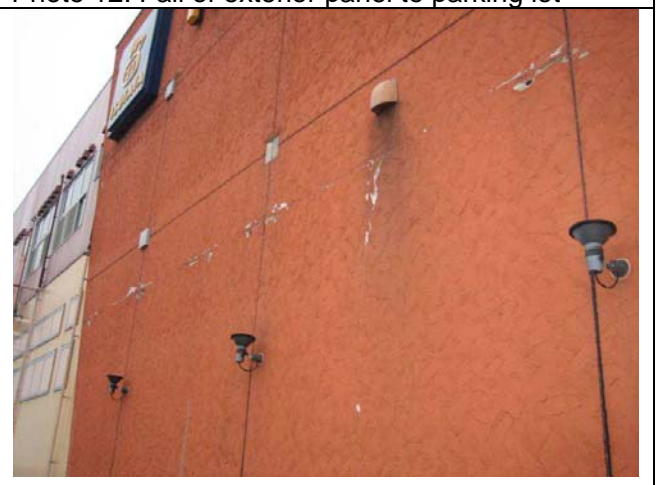


Photo 12: Cracking in ALC exterior panels



(3) Commercial Building in Izume City, Miyagi Prefecture (March 21, 2011)

Izumi City is located in the suburb of Sendai, approximately 7 km to the north east north. Dr. Sato visited a commercial building of steel construction in Natori City. The damage is caused by ground shaking.



Photo 1: Exterior view



Photo 2: The ceiling dropped and roof skeleton is exposed



Photo 3: Entrance



Photo 4: Fall of exterior curtain walls



Photo 4 (Cont'd):



Photo 5: Fall of concrete block walls in the neighborhood