

Sediment-related disasters in the Off West Fukuoka Earthquake on March 20, 2005 (Preliminary report)

Land Conservation Division,
Sabo Department, River Bureau

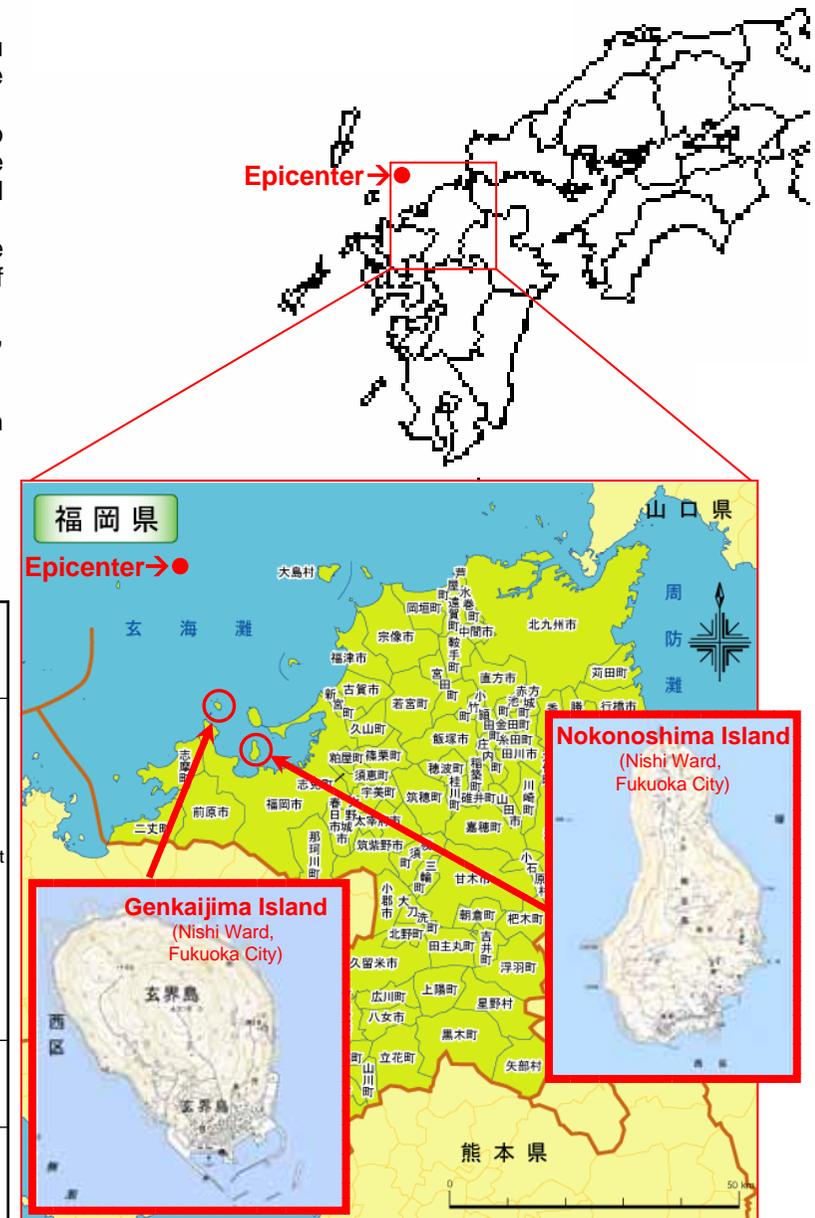
OSabo-related response

- A helicopter was immediately dispatched to Genkai Inland with two engineers of the Kyusyu Regional Development Bureau (KRDB) on board, who made an urgent aerial survey on the site situation including sediment-related disaster occurrence (Mar. 20).
 - To further grasp the situation on sediment related disasters, two engineers of the KRDB, one sabo expert of the Public Works Research Institute (PWRI), and one sabo expert of the National Institute for Land and Infrastructure Management were sent to Genkai Island. They made a preliminary field survey and gave advice on emergency countermeasures (Mar. 21).
 - At the request of the Fukuoka Prefectural Government, two experts on landslide at the PWRI were sent to Genkai Island from March 22. They made a survey on fissures and others at the top of mountains and offered advice on land survey and countermeasures (Mar. 23).
 - The Director General of the Sabo Department accompanied Deputy Minister Hasumi of Land, Infrastructure and Transport who made site inspection in Fukuoka (Mar. 23).
 - Fukuoka and Saga prefectural governments conducted an urgent site inspection targeting sediment-related disaster hazard areas under a seismic intensity of “5 upper” (2,278 locations), in cooperation with the Sabo Volunteer Association.
- (Saga Prefecture: Inspection ended on Mar.24. No dangerous areas were found; Fukuoka Prefecture: Inspected ended on Mar.29. 12 dangerous areas in need of urgent measures were found. They will be inspected in detail on May 2 - 3.)

OSediment-related disasters and related damage (as of 13:30, April 4)

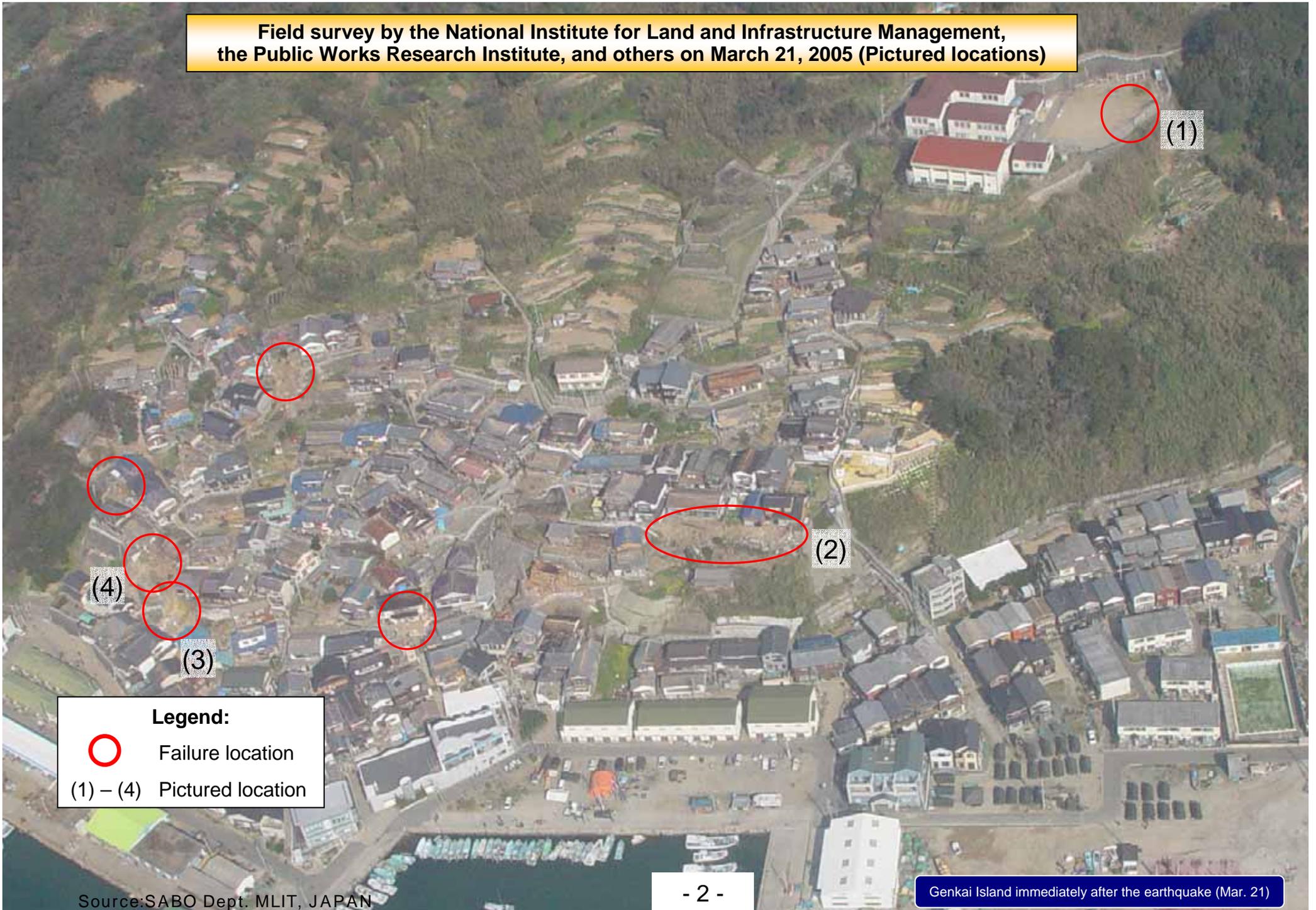
Prefecture	Disaster	No. of occurrence	Human damage			Housing damage			Damage sustained
			Killed	Missing	Injured	Total collapse, carry-away	Half collapse	Partial collapse	
Fukuoka	Slope failure	19				8	11	1	(1) Genkai Island, Fukuoka City: [6 locations] Damage occurred at multiple locations. Total collapse: 8 houses; half collapse: 11 houses. Damaged houses and slopes are covered with blue sheets for urgent protection.
									(2) Nishinoura, Nishi Ward, Fukuoka City: [1 location] A slope failure hazard area was found above a house where a fissure occurred on the forest road which may lead to a failure. A concrete block wall (H=2.0 m) adjacent to a house tilted which may result in a collapse. It is now covered with a blue plastic sheet for urgent protection.
									(3) Hiro, Higashi Ward, Fukuoka City: [1 location] A small amount of sediment flowed out on the road. The failed slope is covered with a blue plastic sheet for urgent protection.
									(4) Noko, Nishi Ward, Fukuoka City: [1 location] A large rock slid down (3 m ³ /piece)
Saga	Slope failure	1						(1) Matsuba, Tonoura, Yobuko Town A slope failure occurred. But, fallen rocks were captured by steep slope failure prevention facilities and thus no damage was caused.	
Oita	Slope failure	2							(1) Fukiage-cho, Hita City: [1 location] A slope failure occurred around the Obako Tunnel on the municipal road and sediment flowed out on the road. (No damage to houses.)
									(2) Kamado, Hita City: [1 location] A rock fall occurred (about 10 m ³) but no damage incurred.
Total		22				8	11	1	

* Details are now being confirmed and can be changed later.
* Information was obtained from prefectural governments.



Source: SABO Dept. MLIT, JAPAN

Field survey by the National Institute for Land and Infrastructure Management, the Public Works Research Institute, and others on March 21, 2005 (Pictured locations)



Legend:
○ Failure location
(1) – (4) Pictured location

Field survey by the National Institute for Land and Infrastructure Management, the Public Works Research Institute, and others on March 21, 2005 (Pictures of sediment-related disasters)

Source: SABO Dept. MLIT, JAPAN



1

Cracking at the ground of Genkai Elementary School (pictured by an official of the KRDB on Mar. 21).



2

Slope failure in immediate proximity to houses (pictured by an official of the KRDB on Mar. 21).



3

Slope failure in immediate proximity to houses (pictured by an official of the Fukuoka Prefectural Government on Mar. 21).



4

Slope failure in immediate proximity to houses (pictured by an official of the Fukuoka Prefectural Government on Mar. 21).