

Initiatives for an initial disaster response by townspeople using a drone: "Chisan chibou project" , a locally operated countermeasure for natural hazards in Jinsekikogen Town, Japan

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The "Chisan chibou" project was implemented in Jinsekikogen Town in Hiroshima Prefecture. The aim of this project is drone operation by local townspeople. Five townspeople underwent drone operation training. The five trained operators conducted a demonstration, a disaster situation awareness demonstration as an initial disaster response. In the disaster situation awareness demonstration, orthographic images were created with DroneDeploy (cloud software), and the images were uploaded to a comparison application developed independently as part of the project. As a result, it was possible to compare ortho-images obtained before and after a disaster and share information obtained from the disaster site with the town hall. As a future development, the project has proposed activities involving the daily use of drones. Namely the implementation of disaster prevention drills using drones and the incorporation of initial disaster situation awareness into disaster response schemes in the town. The town and the operators must cooperate and create a system that can function in the real world.

Keywords: drone, townspeople in charge of drone operation, initial disaster response, disaster situation awareness

