

Written by : Kazutoshi Sato Manga production : Kyoto Seika University Graduate School of Manga Illustrated by : Isana Takeguchi The radio waves sent from the GPS satellite delays when passing So using GPS through an "egg of a cloud". for weather...?? We can analyze these delays and predict "precipitable water vapor"* in real-time. Huh! So we can Let me explain detect rainclouds before they form! GPS satellites umm.. Weather sensor 0 **GPS** receiver egg of a cloud Antenna Using this system, dangers of torrential rainfall Incredible! Warning to people can be quickly communicated to people. C: () wow P Local governments, Antennas set up in ap-Data collection server firefighters, etc. proximately 2km intervals If we utilize the we can expect If GPS receivers are set together Japanese GPS satelimproved accuracy with current cellphone antennas. lites that will start and... we won't need extra infrastrucoperation, tures. Ouite realistic isn't it? Abbb!! We're currently running Oh this? Let's start setting it up Please, shall we use tests in Indonesia... hum? It was broken a right away! the umbrella? moment ago. WHAAT!?

* Precipitable water vapor : Total amount of water vapor in the column atmosphere measured as water depth if all fall as rain.

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The End