

Measurement of environmental radiation distribution in Kusano, Iidate Village

Japan Aerospace Exploration Agency (JAXA)
Japan Atomic Energy Agency (JAEA)
Tokyo Electric Power Company (TEPCO)

1. Date and Time

From 9:00 a.m. to 4:00 p.m. (JST) on February 11, 2012 (Sat.)

2. Measurement Locations (Please refer to the measurement points map below.)

- ① Behind the supermarket near Iidate village community center
- ② In front of the supermarket
- ③ Forest near Watatsumi Shrine, Kusano, Iidate village

3. Surveyors

Japan Aerospace Exploration Agency (JAXA)
Japan Atomic Energy Agency (JAEA)
Tokyo Electric Power Company (TEPCO)

4. Measuring devices

- Ultra-wide-angle Compton camera (JAXA)
- Gamma plotter H (JAEA)
- Ionization-chamber-type survey meter, GM-tube type survey meter (TEPCO)



Ultra-wide-angle Compton camera

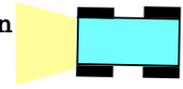


Gamma plotter H

Measurement Points Map in Kusano, Iidate Village

- ① Behind the supermarket near Iidate village community center
- ② In front of the supermarket
- ③ Forest near Watatsumi Shrine, Kusano, Iidate village

Image shooting direction



Measurement van (Ultra-wide-angle Compton)

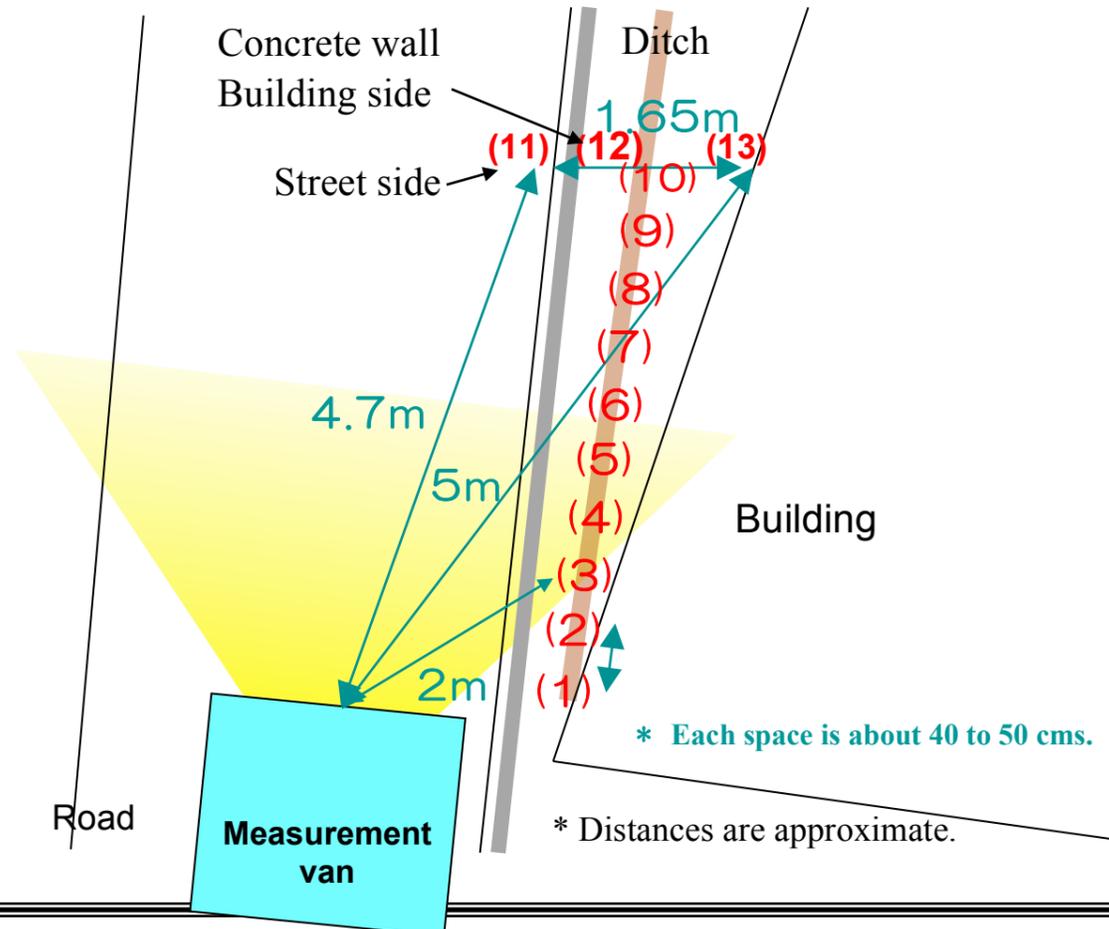


① Behind the supermarket near Iidate village community center

Radiation Measurement Result

Measurement devices used: Ionization chamber (ICS-323C), GM tube (TGS-133), Environment background: ~3 microSv/h

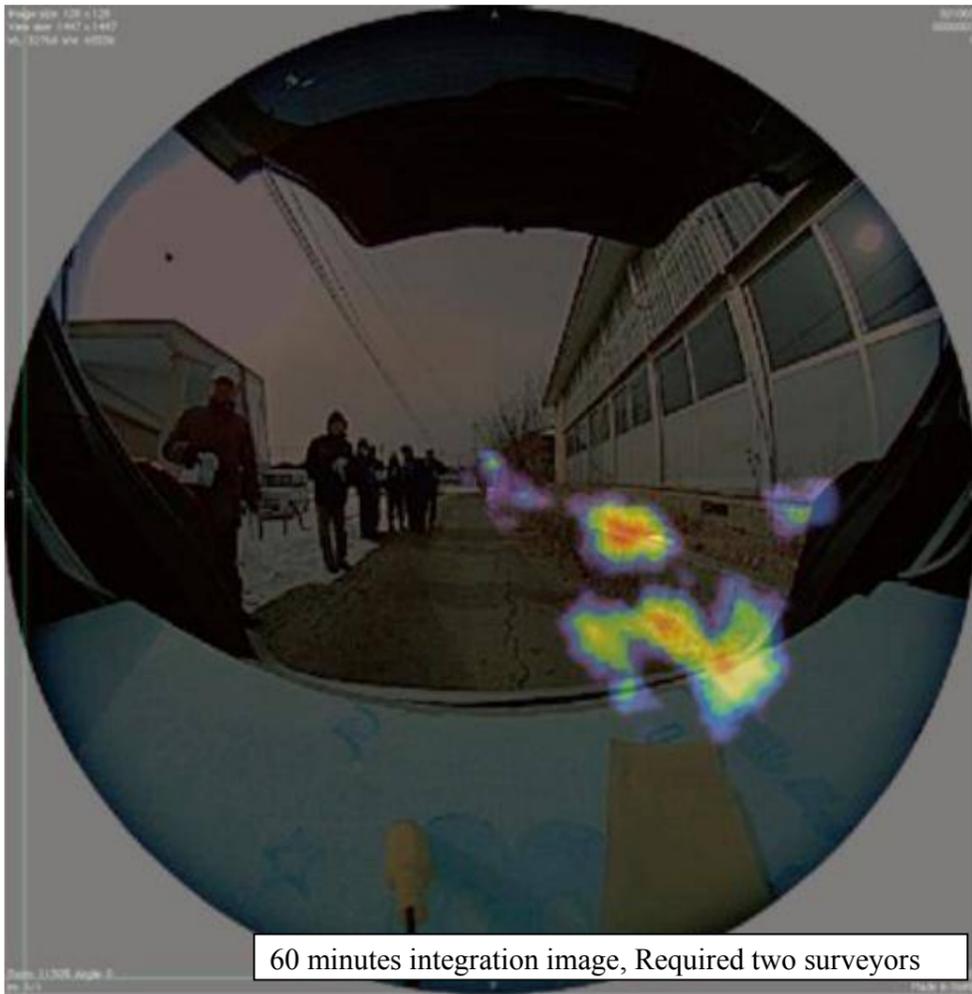
Measurement height: 1 cm above the ground



(13)	6.8 microSv/h	3.5kcpm
(12)	5.3 microSv/h	3.2kcpm
(11)	4.5 microSv/h	4.3kcpm
(10)	25.3 microSv/h	12.5kcpm
(9)	10.3 microSv/h	9.0kcpm
(8)	19.6 microSv/h	10.5kcpm
(7)	21.2 microSv/h	10.0kcpm
(6)	21.1 microSv/h	11.5kcpm
(5)	30.2 microSv/h	15.0kcpm
(4)	26.4 microSv/h	15.5kcpm
(3)	31.0 microSv/h	15.5kcpm
(2)	31.1 microSv/h	20kcpm
(1)	28.0 microSv/h	20kcpm

* Each space is about 40 to 50 cms.

* Distances are approximate.



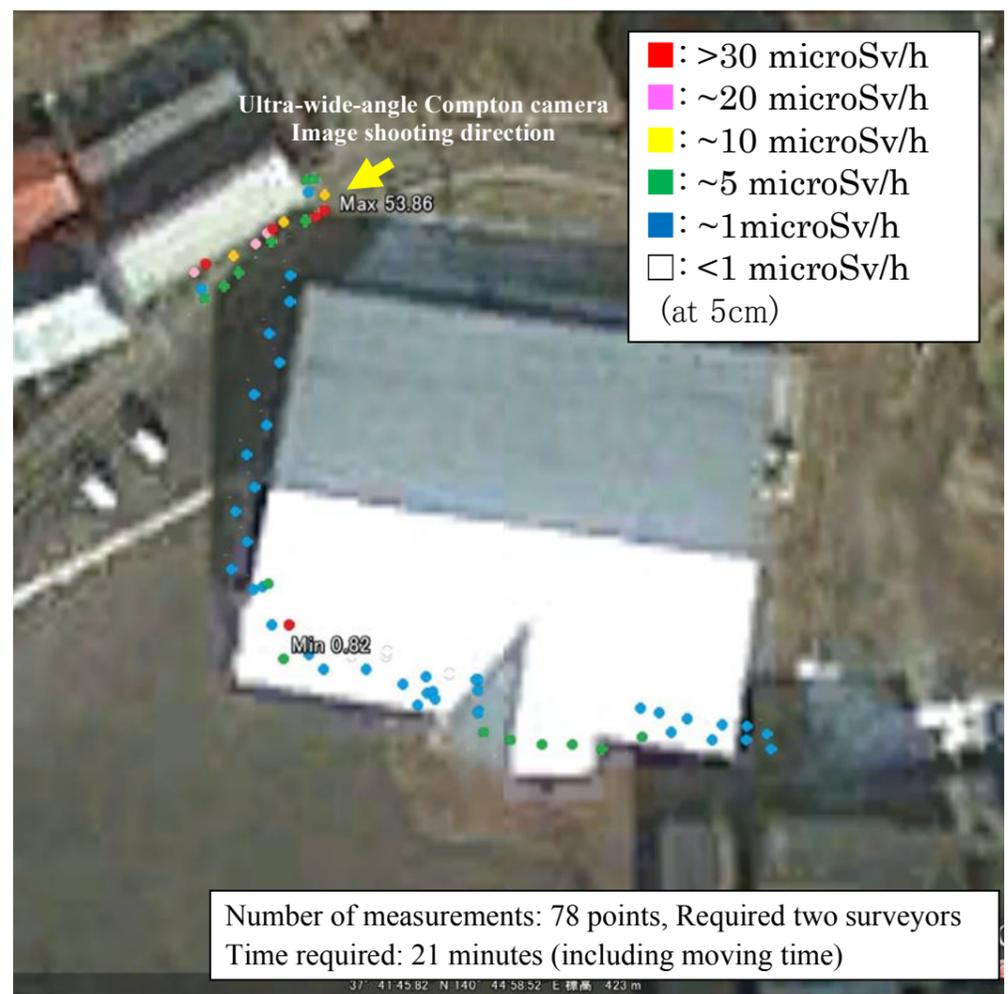
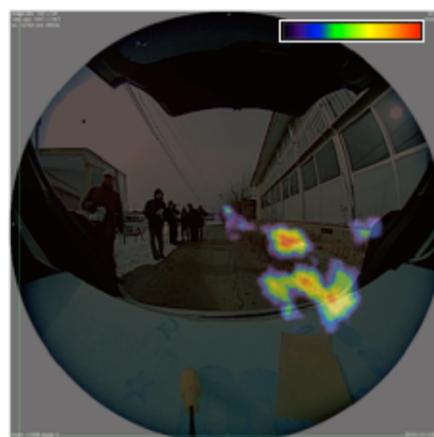
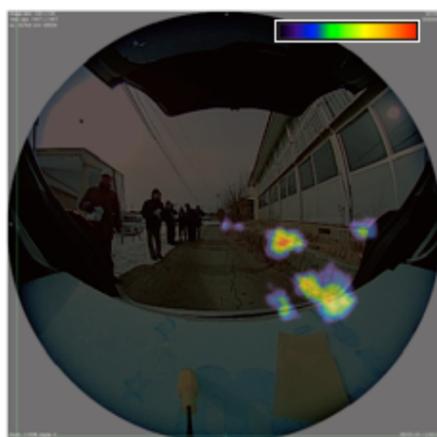
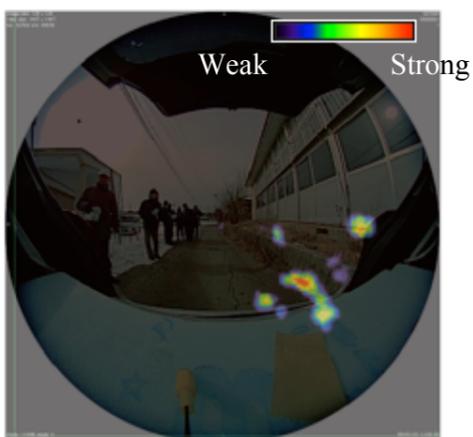
Result of ultra-wide-angle Compton camera shooting

(Reference) Changes with time (Time lapse photography)

20 min

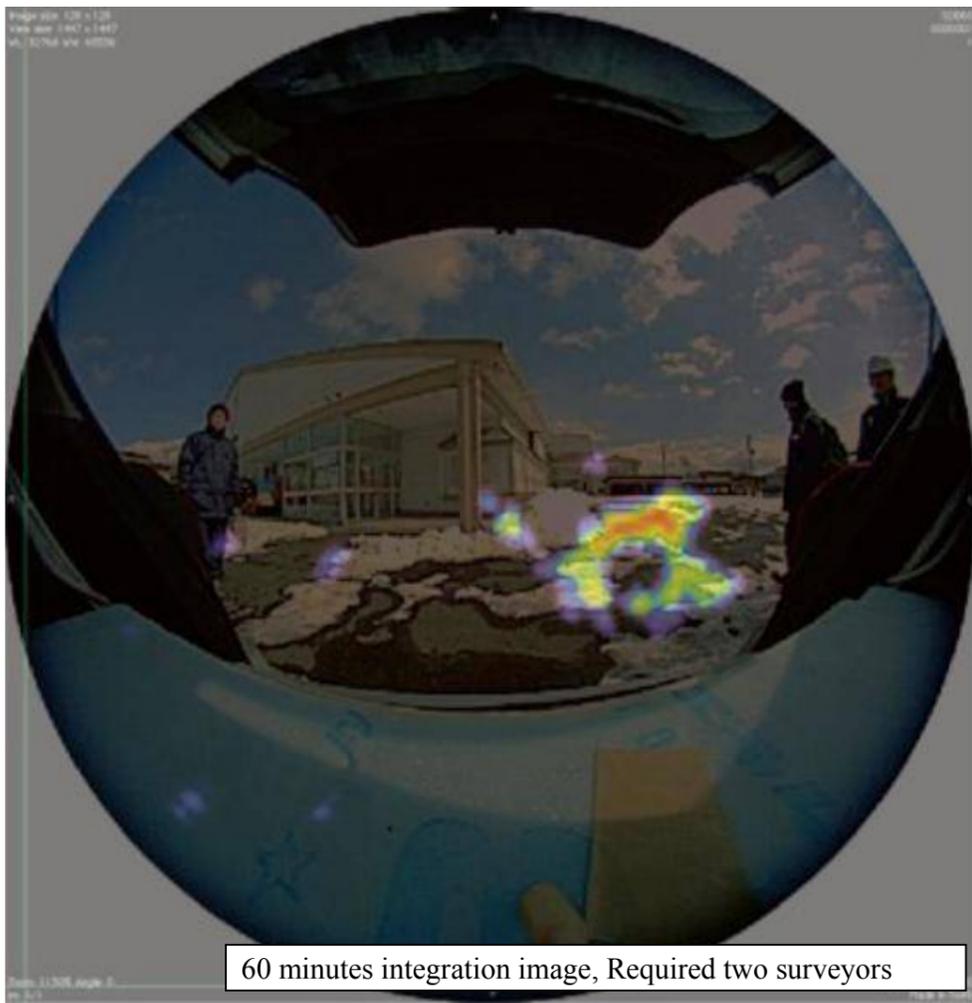
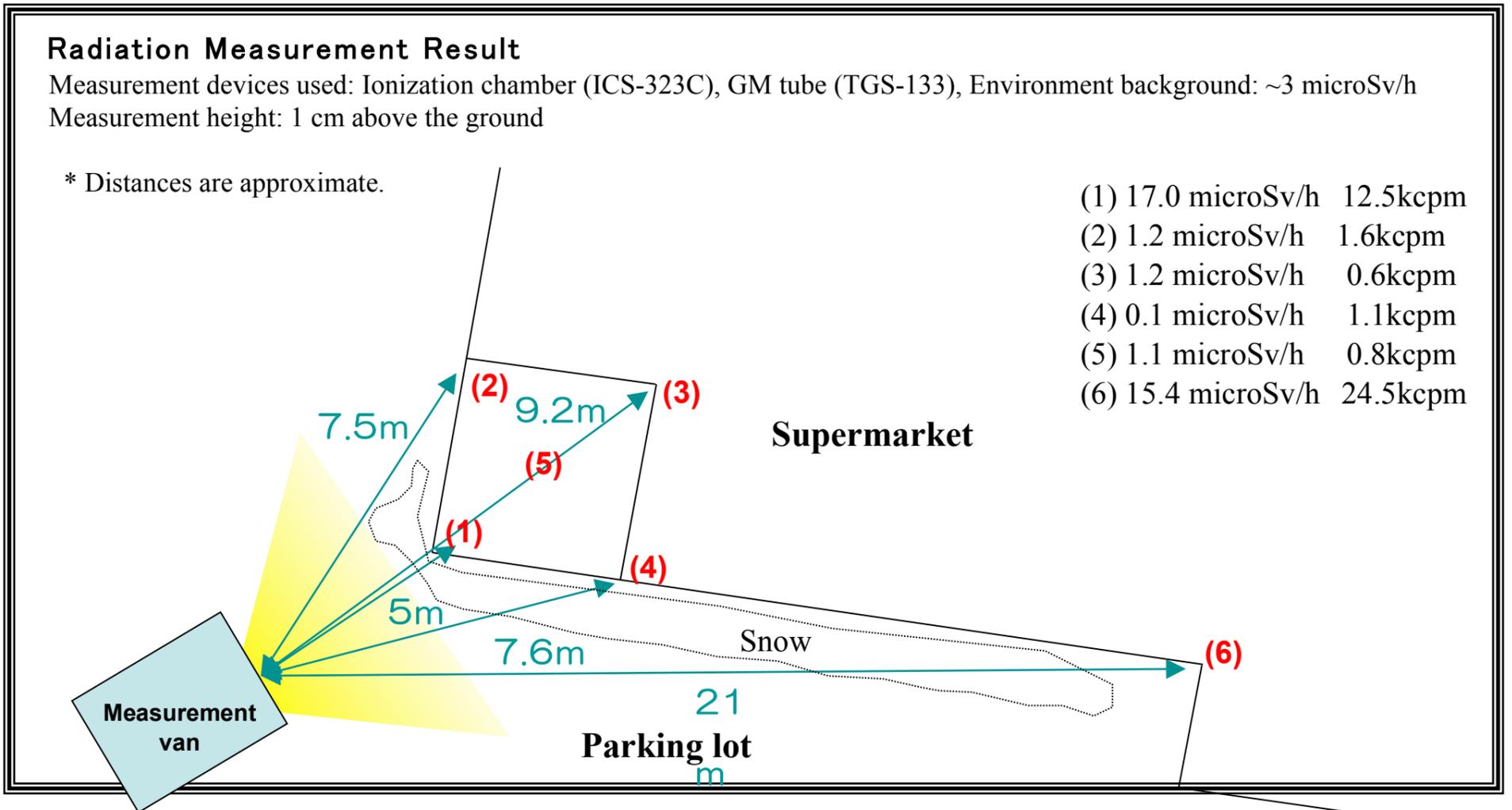
40 min

60 min

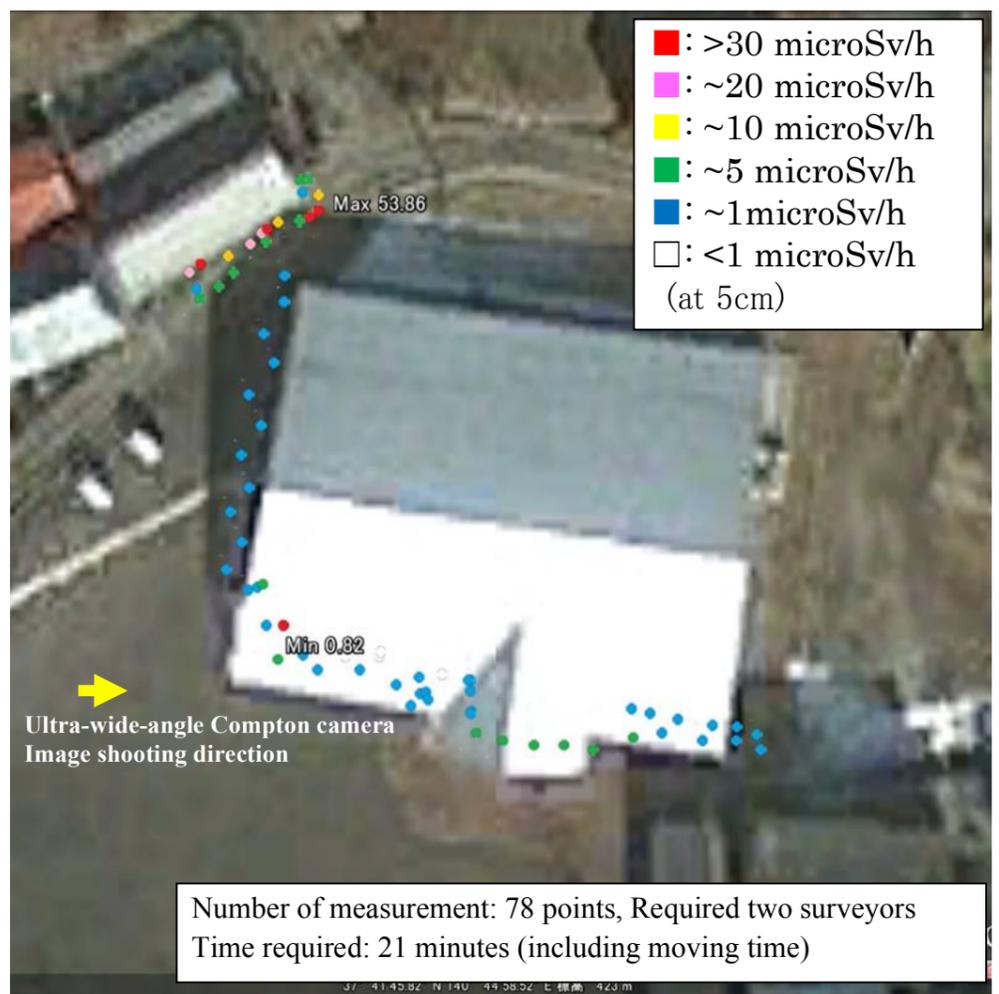


Measurement result of Gamma plotter H

② In front of the supermarket

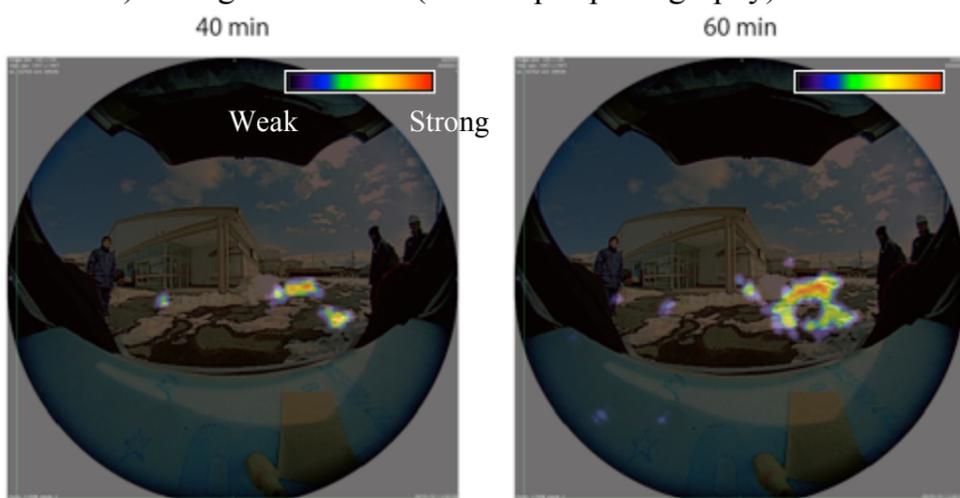


Result of ultra-wide-angle Compton camera shooting
 (Influenced by scattering and shielding by snow)



Measurement result of Gamma plotter H

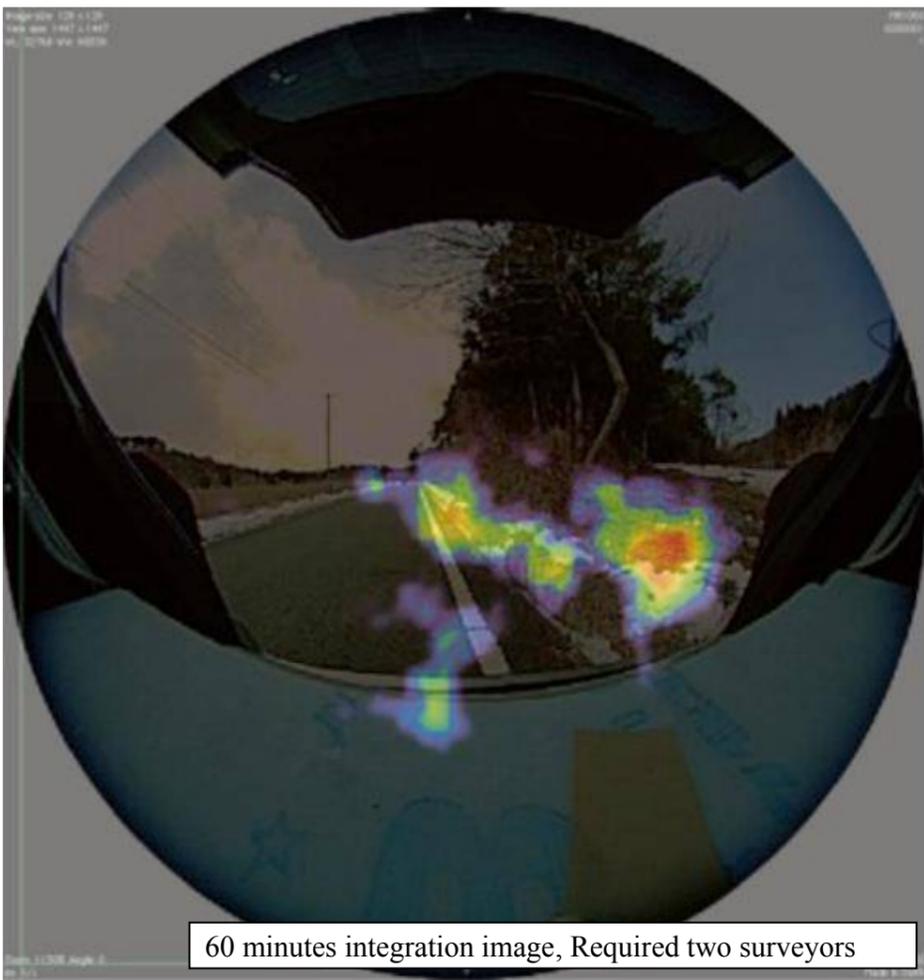
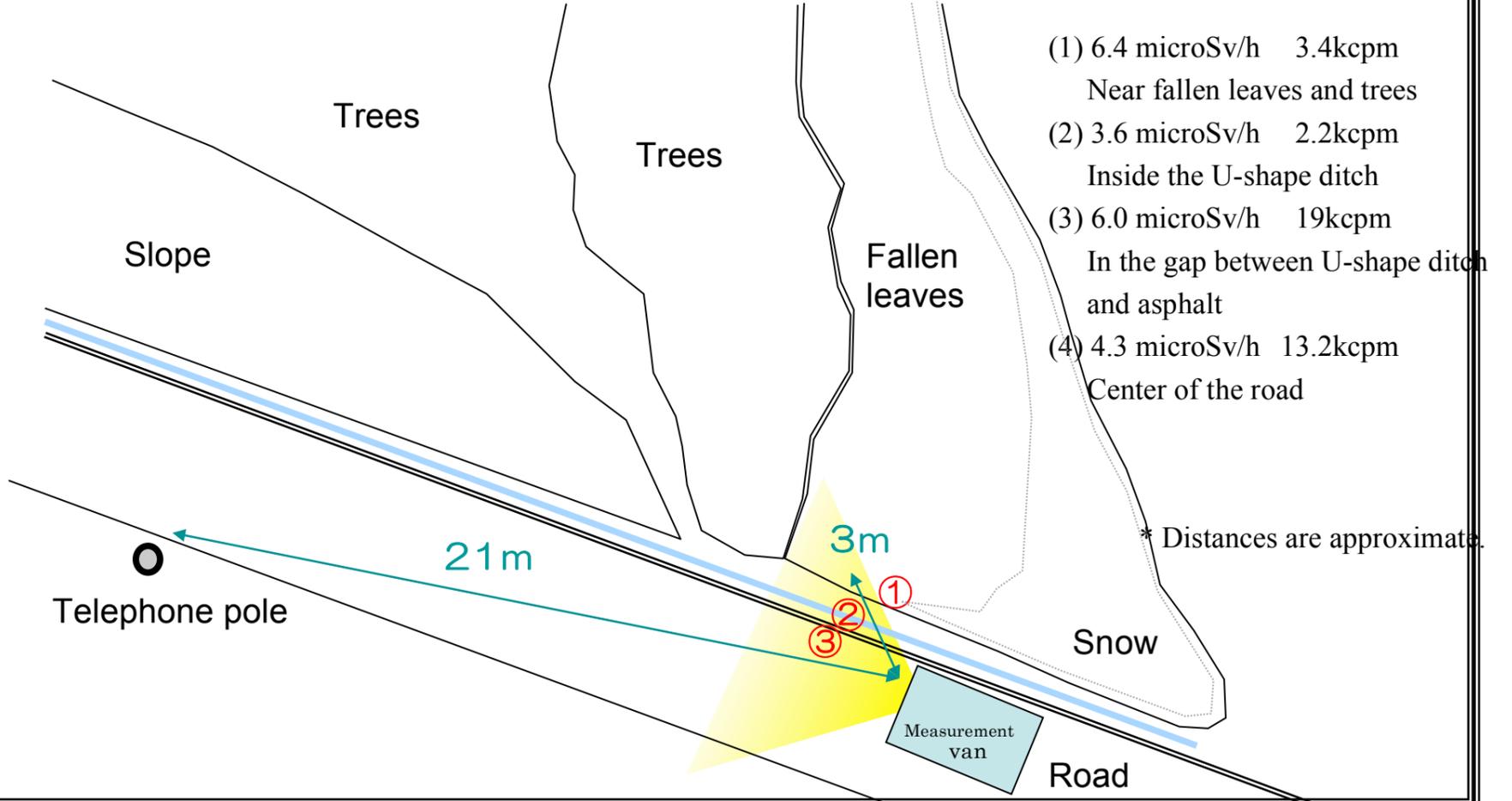
(Reference) Changes with time (Time lapse photography)



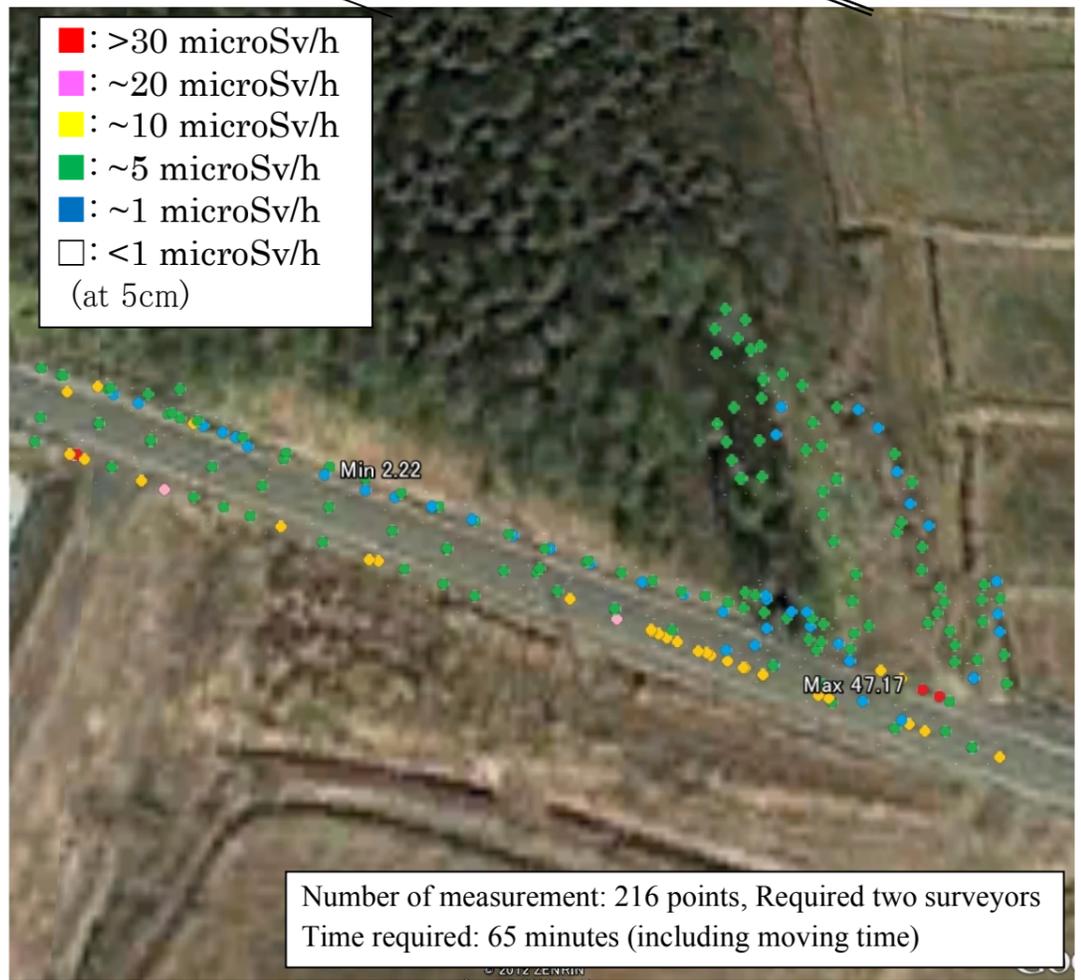
③ Forest near Watatsumi Shrine, Kusano, Iidate village

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