

and compare the values you get with those measured by the calibrated device.

2.22 SC

2.10 J SV SC

3.10 J SV SC

4.10 J SV SC

4.10 J SV SC

5.10 J SV SC

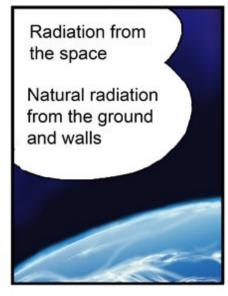
5.10 J SV SC

6.16 J SV

The task to check and adjust the difference of values in each spot is called as 'calibration'.

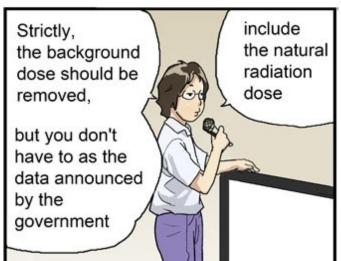


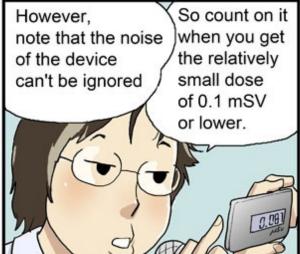






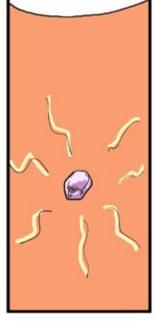






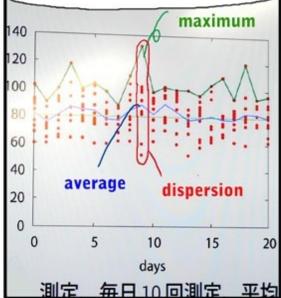


For example, if the radioactive material that is to be counted 20 times per minute is measured for a minute,



you may get the values like a little more than 10 or nearly 30.

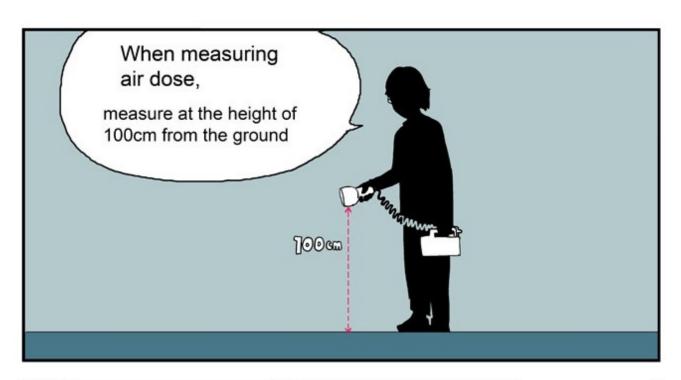
As the radiation measured has been caused by randamlyoccurred decays, the values may not be the same everytime.



So you'd better measure several times and record the average



There is a website recording the 'maximum value', which can't be correct.





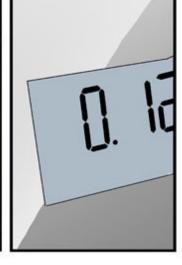


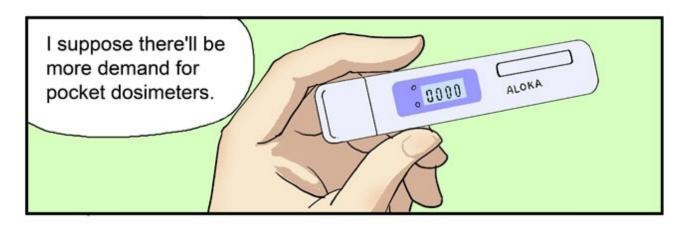
0.1 mSV/h is within the margin of error for most devices.

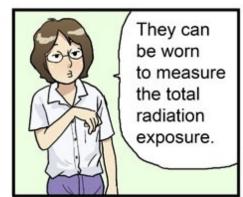
Don't be a stickler about numbers.

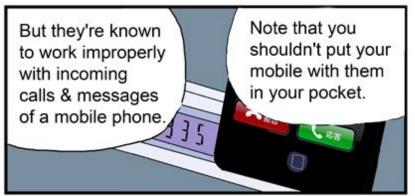


Measure many times to get used to the handling of the device.









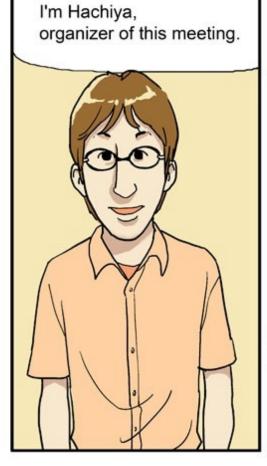








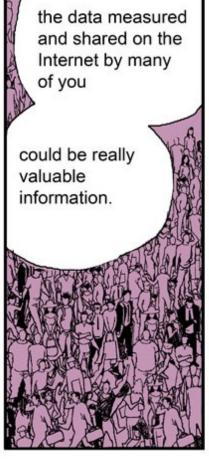
It's another problem whether to get concerned about the values or not.
That's the matter of nationwide consensus.

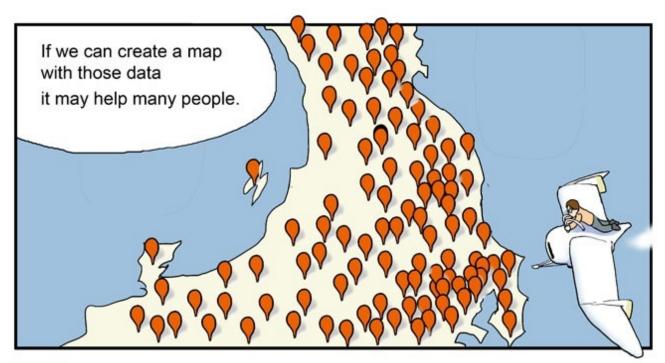




Even if you have

only a simple





Location measured
Model of the Geiger counter
Height from the ground surface
Condition of the ground
(soil or asphalt)
These information
would also be
appreciated





Proper Way to Detect and Measure the Amount of Radiation

Lectured by Prof. **Mihoko Nojiri** KEK (High Energy Accelerator Research Organization, Japan)

Collaborated by Prof. **Ryugo Hayano**Department of Science, Tokyo University, Japan

Prof. **Makoto Kikuchi** Cyber Media Center, Osaka University, Japan

Kazuhiko Hachiya Director at PetWORKs

Cartoon s by **Miso Suzuki**Translated by **Yukari Oseki**