

# Online Library Indoor Radon Measurements Of The Multi Storey Buildings In

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The map reports the number of measurement (N) over 10 km x 10 km grid cells of annual indoor radon concentration in ground-floor rooms of dwellings. This grid has been defined by the JRC and uses a GISCO-Lambert azimuthal equal area projection.

Digital Atlas — REMon

Typical short-term EICs are designed to measure radon for 2 to 15 days at a concentration of 150 Bq/m<sup>3</sup>. The long-term EICs measure radon over 3 to 12 months at a concentration of 150 Bq/m<sup>3</sup>. EICs have been described previously (Kotrappa et al.

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1990).

~~Radon measurements—WHO Handbook on Indoor Radon—NCBI ...~~

A continuous indoor measurement of radon concentration, together with barometric pressure, humidity and temperature was undertaken using an Alphaguard monitor. Data were taken every 10 min for 129 days, starting on 21/04/06 and ending on 28/08/06. To smooth the data, the 10-min data were averaged to one-hour data.

~~Measurements of indoor radon concentrations in the ...~~

The radon progeny particle size distribution owing to indoor activities has two definable source categories: (1) gas combustion from stoves and kerosene heaters—particles were found to be smaller than 0.1  $\mu\text{m}$  in diameter, mostly in the range 0.02–0.08  $\mu\text{m}$ ; and (2) cigarette smoking and food frying—particles were found to be larger, in the size range 0.1–0.2  $\mu\text{m}$ .

~~Indoor Radon Progeny Aerosol Size Measurements in Urban ...~~

Simplified geological map of Mount Etna showing the main faults that cross the volcano and the sites of indoor radon measurements, numbered from 1 to 12. The urbanized areas are shown in light gray. Contour lines are in meters.

~~Frontiers | Preliminary Indoor Radon Measurements Near ...~~

2.2. Radon detectors. Our measurements have been carried out using active and passive monitors. The

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concentrations of radon indoor were measured simultaneously with AlphaGUARD PQ2000 PRO active radon monitor and with ORTEC Charcoal Canisters. The first instrument is a ionization chamber able to reveal the alpha particles directly emitted by the  $^{222}\text{Rn}$ . It has been programmed in order to work in modality of natural gaseous spread and in order to start recording (fix measurement) at every hour ...

~~Measurements of indoor radon concentration on the south ...~~

The average concentration of radon in American homes is about 1.3 picocuries per liter and the average concentration in outdoor air is about 0.4 picocuries per liter. The U.S. EPA recommends that individuals avoid long-term exposures to radon concentrations above 4 picocuries per liter.

~~Indoor Radon~~

The average year-round residential indoor radon level is estimated to be about 1.3 pCi/L, and about 0.4 pCi/L of radon is normally found in outside air. The U.S. Congress has set a long-term goal that indoor radon levels be no more than outdoor levels.

~~Indoor Radon and Radon Decay Product Measurement Device ...~~

The indoor radon level in terms of potential alpha energy exposure (PAEE) has been measured in several dwellings of Aizawl town (23.36 N, 93.00 E) situated in north-eastern India. Films of LR-115 (type II) solid state nuclear track detector (SSNTD) were used in bare mode in the present measurements.

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~~Measurement of Indoor Radon in Some Dwellings in Aizawl...~~

Radon is measured in units of becquerels per cubic metre, Bq/m<sup>3</sup> (the concentration of radioactivity in air). The average indoor concentration in the UK is 20 Bq/m<sup>3</sup>. Contributions to the average UK...

~~Radon in the workplace—Health and Safety Executive~~  
Solid-state nuclear track detectors (SSNTDs) are becoming very popular for the indoor measurements of <sup>222</sup>Rn and its daughters. These small and inexpensive detectors allow for the long-term measurements of alpha activity of indoor radon and also provide the possibility of large-scale surveys simultaneously for many measurements.

~~Indoor radon measurements in the granodiorite area of...~~

The average outdoor radon level (1) varies between 5–15 Bq/m<sup>3</sup>. However, indoors, radon concentrations are higher, with highest levels found in places like mines, caves and water treatment facilities. In buildings such as homes, schools, and offices, radon levels in the range of 10 Bq/m<sup>3</sup> to more than 10 000 Bq/m<sup>3</sup> have been found.

~~Radon and health—World Health Organization~~

The annual average indoor radon concentrations vary from 25 to 722 Bq m<sup>-3</sup>, with a mean value of 132±114 Bq m<sup>-3</sup>. Correlation between indoor radon measurements and same building characteristics was also studied. Based on the obtained results, the mean annual effective dose of 2.4 mSv y<sup>-1</sup> received by inhabitants was estimated.

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~~Indoor radon concentration measurements in some dwellings ...~~

Abstract. The current work deals with indoor radon ( $^{222}\text{Rn}$ ) concentrations and ambient dose-equivalent rate measurements in the bauxite-bearing areas of the Adamawa region in Cameroon before mining from 2022. In total, 90 Electret Ionization Chambers (EIC) (commercially, EPERM) and 175 Radon Track Detectors (commercially, RADTRAK2) were used to measure  $^{222}\text{Rn}$  concentrations in dwellings of four localities of the above region.

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Radon measured in the full sample (470 689 homes) is observed to be log-normally distributed with a geometric mean of  $46.6 \text{ Bq/m}^3$  and an arithmetic mean of  $96.0 \text{ Bq/m}^3$  after subtracting for outdoor radon. Figure 3 shows the distribution of radon measurements for the full dataset. Figure 3 Open in figure viewer PowerPoint

~~Home energy efficiency and radon: An observational study ...~~

and measurement techniques. The variation of radon concentration during the comparison showed a big range of values, with levels from approximately  $0.5$  to  $30 \text{ kBq/m}^3$ . The reference values for the two exposure periods have been derived from a weighted average of participants' results applying an iterative algorithm. The

~~Intercomparison of Indoor Radon Measurements~~

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## ~~Under Field ...~~

Indoor radon concentrations are subject to seasonal variation and, in order to reflect annual averages, measurements made over periods other than twelve months need to be adjusted accordingly. A series of measurements made in the radon affected area of southwest England as part of an epidemiological study have been used to estimate seasonal correction factors.

## ~~Seasonal correction factors for indoor radon measurements ...~~

The average indoor radon concentration for America's homes is about 1.3 pCi/L. It is upon this national average indoor level that EPA based its estimate of 21,000 radon-related lung cancers a year. The average concentration of radon in outdoor air is .4 pCi/L or 1/10th of EPA's 4 pCi/L action level.

## ~~What is EPA's Action Level for Radon and What Does it Mean?~~

EPA has maintained the position that radon measurement systems provide practical and affordable measurements that can give consumers the information they need about the radon level in their home in order to make a decision about whether to fix their home. Since EPA based this position on studies conducted earlier, we decided, in consultation with Office of Inspector General (OIG), to check the ...

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