

Gamma-rays are detected by a spectrometer (on board the aircraft) composed of large crystals (e.g. Cesium-iodine) that emit weak light pulses when hit by gamma quantum. Depending on the radioactive element, the pulses show characteristic energy levels in the range of 0-3 MeV (Mega-electronVolts) that form peaks attributed to K, U and Th in the energy spectrum (see Diag. 'a'). The number of gamma-ray counts across the whole spectrum are referred to as the Total Count (TC).

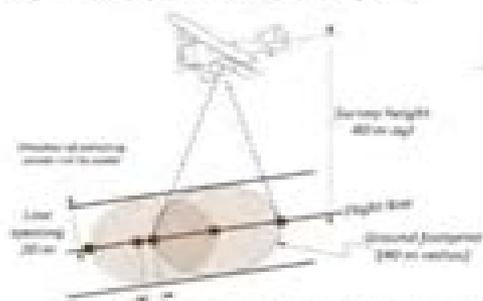


Gamma-ray radiation, which energy is related to the radioactive source elements (K, U, Th) travels through air for up to 300 m agl before to be absorbed by the atmosphere.

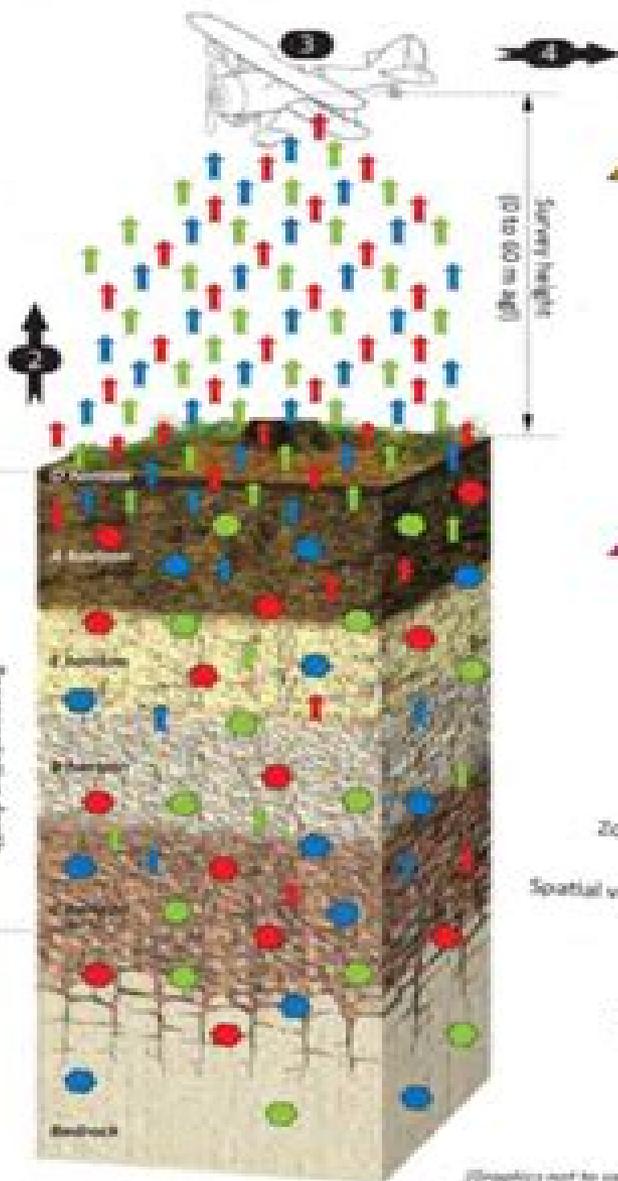
Radioactive source elements naturally occur in the crystals of minerals in soil horizons derived from bedrock:

- Potassium (eq. K)
- Uranium (eq. U)
- Thorium (eq. Th)

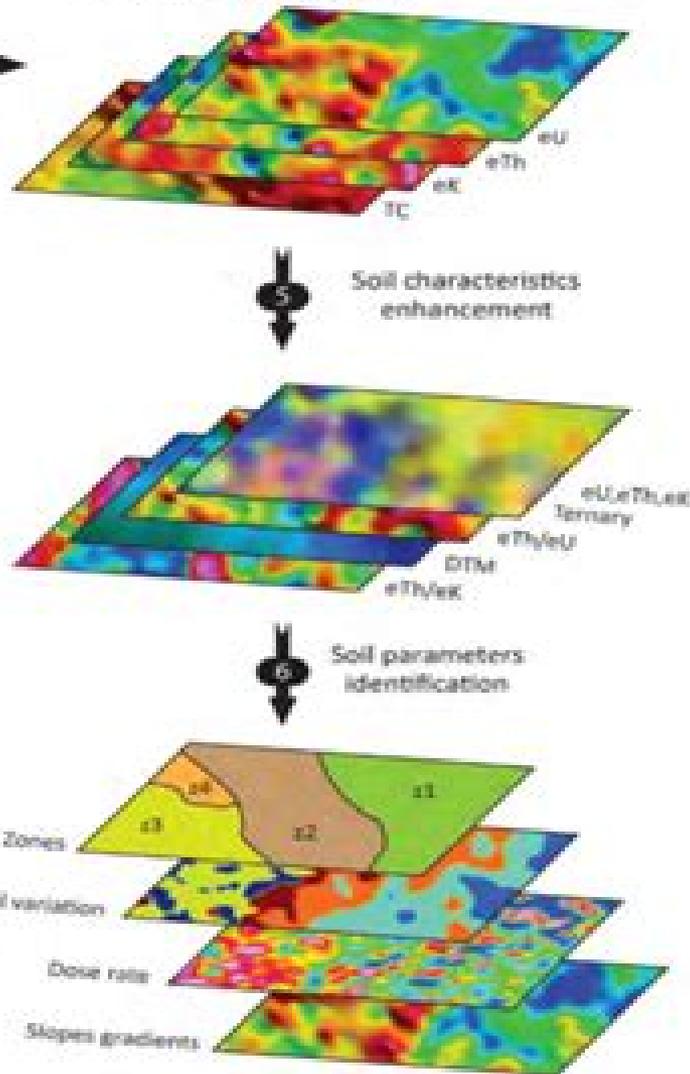
(b) Airborne survey specifications



Measurements spacing if on land a few points are shown (for e.g. 300 m gamma acquisition specifications and ground speed of 100 km/h)



With data processing, recorded gamma-ray spectra (see Diag. 'a') are converted to ground concentrations of K (in %), U and Th (in ppm).



(Graphics not to scale)

Gamma Ray Spectrometry

Jin-Ying Zhang



Gamma Ray Spectrometry :

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