

¹²⁹I dispersion in Argentina

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Measurements of total iodine (¹²⁷I) and ¹²⁹I concentration in thyroids, rivers, lakes and shallow seawater of Argentina are presented. Their latitudinal distribution was explained taken into account their sources and fallout patterns. Deposition fluences for the catchment areas of the studied lakes were estimated. These agree with calculated ones due to atmospheric nuclear weapon tests and with other fluences reported for the southern hemisphere. These are the first ¹²⁹I measurements in shallow seawater from the South Atlantic Ocean. While its concentrations yield values associated with atmospheric nuclear tests at latitudes below 45°S, at southern latitudes concentration values corresponding to the pre-nuclear era were found.