

U Nuclide analysis results of ocean soil

1.

( Unit : Bq/kg· oven-dry soil )

Place of Sampling	date organization	U-234	U-235	U-238
8km offshore of Iwasawa shore	November 18 JCAC	$( 6.6 \pm 0.34 ) \times 10^0$	$( 3.6 \pm 0.60 ) \times 10^{-1}$	$( 6.8 \pm 0.35 ) \times 10^0$
natural uranium specific radioactivity (Bq/g)		$1.2 \times 10^4$	$5.7 \times 10^2$	$1.2 \times 10^4$
abundance ratio of natural uranium(wt%)		0.0054	0.72	99.3

2.Evaluation

Due to following perspective, we evaluate the level of detected uranium as natural uranium.

- Natural uranium keeps radiative balance(U-234 and U-238 has the same density of radioactivity ). The density of radioactivity of the detected U-234 and U-238 is almost the same.
- The detected uranium is almost the same ratio of the existence of natural U-235(U-235/U-238 = 0.0073)  
 U-235: $4.5 \times 10^{-6}$ g/kg· oven-dry soil (oven-dry soil) (0.36Bq/kg· oven-dry soil (oven-dry soil) ), U-238:  $5.5 \times 10^{-4}$ g/kg· oven-dry soil (oven-dry soil) (6.8Bq/kg· oven-dry soil (oven-dry soil))よ) , U-235/U-238=0.0082 \*

\*Due to fractional point, there are possibility that the figures above does not match the result of calculation.

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