Important notice on dataset correction

19 November 2021

Dear user of the DOI ENVRAD database site,

The author found an important notice from one of the data originators dated 6th October 2021. Marine Ecology Research Institute reported that some of the tritium analysis results conducted from 2017 to 2020 and published in the survey reports were incorrect. Hence, some of the tritium data in HAMglobal 2021, 10.34355/CRiED.U.Tsukuba.00085, is also incorrect. The 142 tritium activity concentration data were corrected by MERI’s report. For 102 of 142 records both activity concentration and uncertainty were corrected, for 30 of 142 records only activity concentration were corrected and 10 of 142 records only uncertainty were corrected. We reassigned the new DIDs to the revised 142 records and with numbers from 170001 to avoid confusion or errors and prepare a corrected file and put it in the download package of 10.34355/CRiED.U.Tsukuba.00085. The details of the MERI report are attached at the end of this document.

In addition, one of the users of this dataset reported to the author that she found precipitation data were included in this dataset on 16 November 2021. The author checked data type in the downloaded data from Maris, IAEA, and found that 66 records are data for precipitation, lake water, river water, and beach underground water. Therefore, the author deleted these 66 records from HAMglobal 2021. Following the deletion, the total number of records is 163260.

We apology any inconvenience due to this.

Best regards,

Michio Aoyama, Prof., the representative of DOI ENVRAD publisher at Univ. of Tsukuba

**MERI report translated from Japanese document to English document by ERAN DB team.**

6th of October, 2021

To All Concerned,

Marine Ecology Research Institute

Correction notice on tritium analysis result

We have to announce that some of the tritium analysis results conducted in the period of 2017 - 2020 and published in the survey reports were incorrect. The analysis was conducted by the project using consignment costs for Disaster prevention measures, etc on nuclear facilities, etc (Radioactivity survey and comprehensive evaluation in the marine environment) which was accepted from The Secretariat of the Nuclear Regulation Authority in the four years. We have reported the tritium in the sea water and seafood sample analysis results, made within our office and by outsourcing.

The table below outlines the survey report of the project for which errors were found and the summary.

|  |  |
| --- | --- |
| Survey reports | Summary of corrections |
| The survey report on the Project using consignment costs for Disaster prevention measures, etc on nuclear facilities, etc (Radioactivity survey and comprehensive evaluation in the marine environment) 2017 - 2019 | Some of the tritium analysis result in the seawater sample collected in the sea area surrounding nuclear fuel cycle facility for marine radioactivity survey |
| The survey report on the Project using consignment costs for Disaster prevention measures, etc on nuclear facilities, etc (Radioactivity survey and comprehensive evaluation in the marine environment) 2020 | * Some of the tritium analysis result in the seawater sample collected in the sea area surrounding nuclear fuel cycle facility for marine radioactivity survey * Some of the Tissue Free Water Tritium analysis result in the seafood sample for analytical survey |
| (Main causes and the contents)  When calculating the tritium radioactivity, the attenuation correction calculation was performed on the wrong date. As a result, the radioactivity concentration was reported about 20 to 30% lower, due to the overestimation of the attenuation coefficient. | |

We look back on the circumstances that caused these errors, in order not to repeat the same errors on the radioactivity analysis work in our office in the future, review the work procedure and re-examine the multiple people check system. To prevent recurrence, we also alert subcontractors that similar errors do not occur and ask them to take measures to obtain the reliable analysis results.

In addition, regarding errors in a series of tritium radioactivity analysis results and the countermeasures, based on the project consignment contract, the outsourcer, Environmental Radioactivity Office of Radiation Monitoring Division in Radiation Protection Department in Secretary-General's Secretariat of the Secretariat of the Nuclear Regulation Authority, made the field survey on quality assurance in radioactivity analysis work and confirmed our countermeasures on 31st of August, 2021.

Regarding above, the fact of the data correction is announced at the Nuclear Regulation Authority website (\*) on 20th of July, 2021, and the errata with correction details are uploaded to the website on the 28th of September, 2021.

【URLs】\*Japanese only

(\*) (Corrections in the Report on "Environmental radioactivity level survey (radioactivity analysis)" and "Radioactivity survey and comprehensive evaluation in the marine environment”) 20th of July, 2021

<https://www.nsr.go.jp/news_only/20210720_01.html>

(\*) (Corrections in the Report on "Environmental radioactivity level survey (radioactivity analysis)" and "Radioactivity survey and comprehensive evaluation in the marine environment" (Follow-up)) 28th of September, 2021

<https://www.nsr.go.jp/news_only/20210930_01.html>

We deeply regret and sincerely apologize for causing a great deal of inconvenience to many of you regarding this matter.

End of MERI report.