

Groundwater database and its analysis utilizing the hot spring analysis table

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It is known that the role of water in the material circulation in subduction zones is important. Since 2009, Tanaka laboratory, has been collecting its own the table hot spring analysis in cooperation with each prefectural government, the health center. These tables are based on Paragraph 1 of Article 18 of the Act in hot spring law. Because, results of the analysis, public secondary raw data is difficult of personal property. Currently, the database of the Tanaka laboratory in Japan but some areas are missed, the data is already entered into the GIS 5,998 points.

In addition to the introduction of the above database, to announce the results of the analysis. It was of particular interest this time is the ratio Br / Cl and Li / Cl . Kaga and Toyama Plain are adjacent plain. But, Na-Cl type hot springs wick exist at coastal area, that characteristic of Li/Cl and Br/Cl ratio are different. Also examine other areas, you can find similar characteristics of Br/Cl and Li/Cl to the group of Toyama Plain's Na-Cl type hot springs, that overlap with the hot springs considered affected by Arima-type deep brine.

Keywords: Hot springs, Groundwater database, GIS, Arima-type deep brine, Br/Cl , Li/Cl