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会場:コンベンションホール

沖縄本島南部地域の琉球石灰岩帯水層における水質組成の現状と特性 Characteristics of groundwater chemical composition on Ryukyu limestone region in southern part of Okinawa

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The study area is located in the southern part of Okinawa Main Island, Japan, where Ryukyu limestone is extensively distributed. In this study field surveys were conducted to examine the characteristics of groundwater quality over a wide coastal area with agricultural land use We studied the characteristics of groundwater chemical composition (the four major cations (Na+, K+, Mg2+, Ca2+) and four major anions (Cl-, HCO3-, SO42-, NO3-)) in this region by using observation data at springs and observation wells. It was found that the chemical composition showed CaHCO3- type of groundwater from limestone aquifer where CaCO3 dissolution was predominant process yielding atypical bird-like shape in the Stiff diagram. The other components of groundwater also were indicated high concentrations so that the compositions waere dominated by Na+ and Cl- reflecting salt water and NO3-N and SO42- related agricultural land use in this area.

キーワード: 地下水, 水質組成, 琉球石灰岩

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