

AHW026-03

会場:201A

時間:5月27日14:45-15:00

沖縄本島南部地域の琉球石灰岩帯水層における硝酸態窒素の分布特性に関する考察 Study on characteristics of NO3-N concentrations in groundwater of 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. We studied the behaviour and characteristics of NO3-N in groundwater in this region by using observation data at 13 springs through long term monitoring

It was found that the NO3-N concentrations at in springs ranged from 6.2 mg/L to 16.6mg/L during 17years in this area. The No3-N concentrations had decreased from the mid-1990s to early 2000s. And The No3-N concentrations not have been decreased or increased since early 2000s. Distribution of NO3-N concentrations show various form according to location and differences of various form are approximately classified into two types (stable type and unstable type). It was considered that NO3-N concentrations were influenced by the rainfall, geological structure and land use of upland fields. The equation between T-N concentrations and NO3-N concentrations could be obtained from observed data. The predicted values of NO3-N concentrations were approximately in agreement with the observed values.

キーワード: 硝酸態窒素, 地下水, 湧水, 琉球石灰岩 Keywords: NO3-N, groundwater, spring water, Ryukyu limestone