

Physical and Chemical Characteristics of Five Hot Springs in Eritrea

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Abstract

Eritrea has a number of hot springs whose physicochemical characteristics are not documented. This study examined the thermal and chemical features of five hot springs located in the eastern escarpment of Eritrea. Field data and water samples were collected from five hot springs namely: Akwar and Maiwool near Gahelalai, Garbanabra and Gelti near Iradaye at the Gulf of Zula and Elegedi in Abd volcanic center. The water temperatures at source varied from 49.5°C to 100°C while pH levels ranged from 6.97 to 7.54. Elegedi had significantly higher temperature ($p < 0.05$) than the other four hot springs. Strong correlation was observed between electrical conductivity (EC), total dissolved solid (TDS), salinity, sodium, potassium, calcium and chloride ($R^2 > 0.9$) as well as between temperature and sulphate levels ($R^2 = 0.96$). Evident clustering was noted at $p < 0.05$, using Non-metric multidimensional scaling (NMDS), between the three locations of the hot springs. Akwar and Maiwool, situated close to each other, clustered together, Garbanabra and Gelti, which were characterized by higher salinity levels, formed a separate cluster. Elegedi, characterized by high temperature (100°C), sulphate (979.7 mg/l) and NH_4^+ (196.33 mg/l) levels, clustered separately. Akwar and Maiwool had high bicarbonate (345 mg/l and 393 mg/l) and fluoride (8.20 mg/l and 6.48 mg/l) levels which are above WHO limits. Electrical conductivity (23,133 mS/cm), total dissolved solid (15,552 mg/l), sodium (3,800 mg/l), potassium (198 mg/l), calcium (1,653 mg/l) and magnesium (1,000 mg/l) levels in Garbanabra and Gelti hot springs exceeded WHO limits. Bromine (74.8 mg/l in Akwar and 1.2 mg/l in Gelti) and boron (2.21 mg/l in Garbanabra and 1.55 mg/l in Gelti) levels were also above standard limits set for potable water. Maiwool (1.20) and Elegedi (1.10) were depositional while Akwar water (-0.71) was slightly corrosive. The corrosive nature of the water sample from Akwar, is a public health concern. The waters from the five Eritrean hot springs are thus not fit for human consumption. In addition, the use of thermal spring water for recreational purposes should be closely monitored.

Keywords: key words, hot springs, physicochemical, Eritrea

1. Introduction

In the past few decades, there has been an unprecedented resurgence of interest in thermal springs due to diversification in their utilization. Thermal spring waters are increasingly being used for industrial processing, agriculture, aquaculture, bottled water and the extraction of rare elements (Shevenell *et al.*, 2002). Hot spring waters are suitable for medical purposes especially for skin therapy owing to the presence of sulphur and sulphate ions (Lund, 1996). The mineral composition of the thermal waters reflects the geological formations found at the site and possibly the depth of its origin (Olivier *et al.*, 2008). The physical and chemical attributes of water can be used in the classification and assessment of water quality in determining its use for irrigation, agriculture, drinking and industrial purposes (Lakshmi *et al.*, 2016).

Physicochemical analysis of water from hot springs from different parts of the world has been widely reported. In India, assessment of water quality has been conducted in several hot springs including the terrestrial thermal spring of Atri in Khurda District (Dash *et al.*, 2013), Vashisht in Manali region of Kulu District (Nareish *et al.*, 2013), Markanday region of Hamirpur District in Himachal Pradesh (Kumar and Surinder, 2013) and Tatapani in the Kalakote region of Rajouri District (Vardhan *et al.*, 2015). The biological and physicochemical properties of spring waters of Mahapelessa in Sri Lanka have been documented (Rajapaksha *et al.*, 2014). Thermal and chemical features of eight thermal springs located in the northern part of the Limpopo Province, South Africa were studied in order to establish their optimal use (Olivier *et al.*, 2011). The physicochemical properties of water from seven Ethiopian hyperthermal springs were analyzed and the pH, turbidity, chlorine, sulphate, nitrate, nitrite and ammonia were within the range stipulated for drinking water by WHO. However, the bicarbonate and sodium ions including conductivity in the Ethiopian springs were high (Haki and Gezma, 2012).

In Eritrea, there are considerable low temperature-thermal springs that have potential for recreation, health and mineral water bottling. They occur at along the Asmara-Massawa highway, close to Gulf of Zula and

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