ResearchGate

See discussions, stats, and author profiles for this publication at: http://www.researchgate.net/publication/258258981

Baba, A., Türkoğlu, M., Özcan, H., Deniz, O. 2005. Investigation of discharge of fresh water in the Çanakkale Strait (Dardanelles, Turkey)", Environmental Security in Harbour and C...

CONFERENCE PAPER · JANUARY 2005

READS
121

4 AUTHORS, INCLUDING:



Alper Baba
Izmir Institute of Technology
90 PUBLICATIONS **514** CITATIONS
SEE PROFILE



Muhammet TÜRKOĞLU
Çanakkale Onsekiz Mart Üniversitesi
99 PUBLICATIONS **155** CITATIONS
SEE PROFILE



Ozan Deniz
Çanakkale Onsekiz Mart Üniversitesi
13 PUBLICATIONS **36** CITATIONS
SEE PROFILE

Available from: Muhammet TÜRKOĞLU
Retrieved on: 26 November 2015

INVESTIGATION OF DISCHARGE OF FRESH WATER IN CANAKKALE STRAIT (DARDANELLES -TURKEY)

A. BABA*, M. TURKOGLU and H. OZCAN*****

* Canakkale Onsekiz Mart University, Faculty of Engineering and Architecture, Geological Eng. 17020 - Canakkale- Turkey

**Canakkale Onsekiz Mart University, Faculty of Fisheries, 17020- Canakkale/Turkey

*** Canakkale Onsekiz Mart University, Faculty of Agriculture, Soil Dept. 17020 - Canakkale- Turkey

ABSTRACT

Canakkale Strait (Dardanelles) is a water passage connecting the Aegean Sea and the Marmara Sea. Its NE-trend is interrupted by a north-south direction bend between Eceabat and Canakkale. Its width varies from 1.35 to 7.73 km, the narrowest part located between Canakkale and Kilitbahir. The average depth of the strait is approximately 60 m depth; the deepest part reaches more than 100 m. The aim of this study is to clarify the fresh water in Canakkale Strait. For this purpose, 52 sample points were selected in study area. The temperature, pH, Salinity, Dissolved Oxygen, Total Dissolved Solids, Chlorine, Oxidation and Reduction Potential (ORP) was measured in different depth (1, 5, 10, 20 and 30 m) water from top to dip in Canakkale Strait. Geographic Information System (GIS) was used to create tabular and spatial data base with the aim of integrating the physical properties at Canakkale Strait. These results show that discharge of fresh water is seen in four locations between Dardanos and Canakkale and that Aegean Sea and Marmara Sea water are mixing between Canakkale and Kilitbahir.

Keywords: Canakkale Strait, discharge, Dardanelles, Intrusion, GIS