



Books Conferences News About Us Home Journals Job: Home > Journal > Earth & Environmental Sciences > JWARP Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues JWARP> Vol.4 No.11, November 2012 • Special Issues Guideline OPEN ACCESS JWARP Subscription Seawater Intrusion and Salinization Processes Assesment in a Multistrata Coastal Aquifer in Italy Most popular papers in JWARP PDF (Size: 5384KB) PP. 954-967 DOI: 10.4236/jwarp.2012.411111 **About JWARP News** Author(s) Giuseppe Sappa, Maria Teresa Coviello Frequently Asked Questions **ABSTRACT** This paper presents the results of the investigations, driven by different techniques, including Recommend to Peers environmental tracers and geophysical methods, in the aim of better understand the causes of the current salt-water intrusion in the Pontina Plain, in the south of the Lazio Region (Italy). In the last 50 years many Recommend to Library investigation campaigns have been carried out to evaluate the evolution of salt-water intrusion. This is an area with a strong man-made residential and tourist impact and, in the some cases, it is characterized by Contact Us intensive agricultural practices. Therefore, it can be affected not only by salt-water intrusion, but by the salinization of its groundwater also due to other factors. All these factors have led the Pontina Plain to a groundwater situation which makes the groundwater resource management and the planning of their Downloads: 402,246 future exploitation very difficult. Visits: 1,009,886 **KEYWORDS** Coastal Aquifers; Geophysical Methods; Environmental Tracers; Salinization; Salt-Water/Fresh-Water Relation; Italy Sponsors, Associates, ai Links >> Cite this paper G. Sappa and M. Coviello, "Seawater Intrusion and Salinization Processes Assesment in a Multistrata Coastal Aquifer in Italy," Journal of Water Resource and Protection, Vol. 4 No. 11, 2012, pp. 954-967. doi:

References

10.4236/jwarp.2012.411111.

- [1] P. Tuccimei, R. Salvati, G. Capelli, M. C. Delitala and P. Primavera, "Groundwater Fluxes into a Submerged Sinkhole Area, Central Italy, Using Radon and Water Chemistry," Applied Geochemistry, Vol. 20, No. 10, 2005, pp. 1831-1847. doi:10.1016/j.apgeochem.2005.04.006
- [2] M. D. Fidelibus and L. Tulipano, "Mixing Phenomena Owing to Sea Water Intrusion for the Interpretation of Chemical and Isotopic Data of Discharge Waters in the Apulian Coastal Carbonate Aquifer (Southern Italy)," Proceedings of the 9th Salt Water Intrusion Meeting, Delft, 1986, pp. 591-600
- [3] C. A. J. Appelo and D. Postma, "Geochemistry, Ground- water and Pollution, xvi + 536 p," A. A. Balkema, Rotterdam, Brookfield, 1993.
- [4] A. Longinelli and E. Selmo, "Isotopic Composition of Precipitation in Italy: A First Overall Map," Journal of Hydrology, Vol. 270, No. 1-2, 2003, pp. 75-88. doi:10.1016/S0022-1694(02)00281-0
- [5] R. Casa, M. Rossi, G. Sappa and A. Trotta, "Assessing Crop Water Demand by Remote Sensing and GIS for the Pontina Plain, Central Italy," Journal Water Resources Management, Vol. 23, No. 9, 2009, pp. 1685-1712. doi:10.1007/s11269-008-9347-4
- [6] L. Piemontese and C. Perotto, "Carta Dell' uso del Suolo Della Provincia di Latina," Gangemi Editore, Roma, 2004.