

Documentation of the Seawater Intrusion (SWI2) Package for MODFLOW



The SWI2 Package is the latest release of the Seawater Intrusion (SWI) Package for MODFLOW. The SWI2 Package allows three-dimensional vertically integrated variable-density groundwater flow and seawater intrusion in coastal multiaquifer systems to be simulated using MODFLOW-2005. Vertically integrated variable-density groundwater flow is based on the Dupuit approximation in which an aquifer is vertically discretized into zones of differing densities, separated from each other by defined surfaces representing interfaces or density isosurfaces. The numerical approach used in the SWI2 Package does not account for diffusion and dispersion and should not be used where these processes are important. The resulting differential equations are equivalent in form to the groundwater flow equation for uniform-density flow. The approach implemented in the SWI2 Package allows density effects to be incorporated into MODFLOW-2005 through the addition of pseudo-source terms to the groundwater flow equation without the need to solve a separate advective-dispersive transport equation. Vertical and horizontal movement of defined density surfaces is calculated separately using a combination of fluxes calculated through solution of the groundwater flow equation and a simple tip and toe tracking algorithm.

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Package for MODFLOW. Chapter 46 of. Section A, Groundwater. Book 6, Modeling Techniques. Freshwater. **SWI2 Package, Two-Aquifer System** Documentation of the Seawater Intrusion (SWI2) sion (SWI2) package for MODFLOW: U.S. Geological Survey Techniques and Methods, book 6, chap. A46, 47 **SWI2 - Seawater Intrusion Package - USGS Water Resources** A manual of instructional problems for the USGS MODFLOW model. Documentation of the seawater intrusion (SWI2) package for MODFLOW: U.S. Geological **ModelMuse Help - USGS Water Resources** Details about NEW Documentation of the Seawater Intrusion (SWI2) Package for MODFLOW. Be the first to write a review. NEW Documentation of the Seawater **Summary of MF-OWHM [20KB TXT] - USGS Water Resources**