

# Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia

by Sirak Tekleab Gebrekristos

In Search of Sustainable Catchments and Basin-wide Solidarities . and Jedeb catchments in the Abay/Upper Blue Nile basin, Ethiopia. basin. Key words conceptual distributed hydrological model environmental isotopes PCRaster software environment Understanding rainfall–runoff processes within the. Understanding Catchment Processes and Hydrological Modelling in . . through conceptual hydrological modeling in the Upper Blue Nile Basin, Ethiopia and allow for an understanding of the rainfall-runoff processes in those catchments. the larger proportion of runoff (44-48 ) in the Gilgel Abay catchment. Understanding catchment processes and hydrological modelling in . Free Shipping. Buy Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia at Walmart.com. 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Tesfaye, P Pauw(2011): Meta-analysis of institutional-economic factors explaining the catchment, Abay/Upper Blue Nile basin, Ethiopia Hydrological Processes pp. Understanding Catchment Processes and Hydrological Modelling in . 1 Aug 2018 . Article (PDF Available) in Hydrological Sciences Journal/Journal des Sciences Hydrologiques . and Jedeb catchments in the Abay/Upper Blue Nile basin, Ethiopia. Understanding rainfall–runoff processes within the. Understanding Catchment Processes and Hydrological Modelling . Modelling rainfall–runoff processes of the Chemoga and Jedeb meso-scale catchments in the Abay/Upper Blue Nile basin, Ethiopia . wetlands, Ethiopia Abstract: The objective of this study is to understand the rainfall–runoff processes caused by different amounts of wetlands leading to different hydrological responses. Implications of climate change on hydrological extremes in the Blue . Understanding catchment processes and hydrological modelling in the Abay/Upper Blue Nile Basin, Ethiopia/. by Sirak Tekleab, Gebrekristos,. Published by Hydrological Response to Climate Change for Gilgel Abay River, in . hydrological processes and the water resources availability. It is important and validate (from 2001-2005) the upper Blue Nile River Basin (Gilgel Abay, Gumera, Ribb and Megech catchment). catchments, it is a must to use a mathematical hydrological modelling. [5]. Hence a proper understanding of the rainfall- runoff. Hydrological Response to Climate Change for Gilgel Abay River, in . [PDF][EPUB] Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia Download by Sirak Tekleab . Sirak Tekleab - Google Scholar Citations Title: Understanding catchment processes and hydrological modelling in the Abay/Upper Blue Nile basin, Ethiopia. Author: Gebrekristos, Sirak Tekleab. Analysis of the combined and single effects of LULC and . - hessd 8 Jan 2015 . Search results Analyzing runoff processes through co Analyzing runoff processes through conceptual hydrological modeling in the Upper Blue Nile Basin, Ethiopia understanding of the rainfall-runoff processes in those catchments. and applied to the upper Gumera and Gilgel Abay catchments (both Understanding Catchment Processes and Hydrological Modelling in . 24 Oct 2013 . Process-based hydrological models have a strong physical The Lake Tana Basin is located in northwestern Ethiopia (latitude The Gilgel Abay River with a catchment area of 5,004 km<sup>2</sup> is the largest river discharging into the Lake Tana. The HadCM3 GCM predictions for the Upper Blue Nile Basin abay basin ethiopia: Topics by WorldWideScience.org Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia (IHE Delft PhD Thesis Series) [Sirak Tekleab . Understanding Catchment Processes and Hydrological Modelling in . The Blue Nile River (BNR) basin in east Africa has been no exception, given its highly . drainage area of 312,000 km<sup>2</sup> the Ethiopian portion, the upper BNR basin, the current understanding of hydrological extremes in the BNR basin under .. to separate process models (e.g., rainfall-runoff or other impact assessment Evaluation of Conceptual Hydrological Models in Data . - MDPI ??? ???? ????) Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia ?? ???? ???? ???? . Modelling rainfall–runoff processes of the Chemoga and Jedeb . 3 Feb 2015 . Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia Understanding Catchment Processes and Hydrological Modelling in . 24 Oct 2013 . Process-based hydrological models have a strong physical The Lake Tana Basin is located in northwestern Ethiopia (latitude The Gilgel Abay River with a catchment area of 5,004 km<sup>2</sup> is the largest river discharging into the Lake Tana. The HadCM3 GCM predictions for the Upper Blue Nile Basin The Implications of Changes in Population, Land Use, and Land . 9 Apr 2015 . Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia - CRC Press Book. Analyzing catchment behavior through catchment modeling . - HESS Free Online Library: Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia: Dissertation.(Brief article Understanding Catchment Processes and Hydrological Modelling in . 20 Mar 2008 . ity in upper Blue Nile Basin, Lake Tana, Ethiopia. Monte Carlo simulations (1 000 000 model runs) per CR explained the reason behind the hydrology of the Gilgel Abay Catchment, one of the main tributaries of dynamics,

runoff generation processes and provide further insight on lake level fluctu-. Modelling rainfall–runoff processes of the . - PubAg - USDA On the other hand, in a semiarid catchment where intensive soil and water . The climate and hydrology of the Upper Blue Nile River. Landscape Dynamics and Soil Erosion Process Modeling in the Northwestern Ethiopian Highlands [PhD thesis]. .. (2013) Understanding recent land use and land cover dynamics in the Analyzing runoff processes through conceptual hydrological . 29 Oct 2010 . in the Gilgel Abay, Upper Blue Nile River Basin, Ethiopia. S. Uhlenbrook<sup>1,2</sup> Understanding catchment hydrological processes is essential for Hydrologic responses to land cover change: the case of Jedeb . Water balance modeling of Upper Blue Nile catchments using a top-down approach . Hydro-climatic trends in the Abay/upper Blue Nile basin, Ethiopia Hydrologic responses to land cover change: the case of Jedeb mesoscale catchment, Modelling rainfall–runoff processes of the Chemoga and Jedeb meso-scale Read e-book online Understanding Catchment Processes and . ?7 Feb 2018 . The Abay / top Blue Nile basin contributes the biggest percentage of discharge Read Online or Download Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia PDF. Public defence and awarding ceremony of Sirak Tekleab Gebrekristos Items 51 - 72 of 72 . Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia · NARCIS (Netherlands). Analyzing runoff processes through conceptual hydrological . 26 Jan 2018 . Read Online or Download Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia PDF. [PDF][EPUB] Understanding Catchment Processes and Hydrological . 6 Dec 2017 . Data Scarce Region of the Upper Blue Nile Basin: Department of Agricultural and Bioprocess Engineering, Ambo University, P.O. BOX 19, Ambo, Ethiopia The understanding of hydrological processes at catchment scale is very .. Processes and Hydrological Modelling in the Abay/Upper Blue Nile. (PDF) Modelling rainfall–runoff processes of the Chemoga and . [PDF] Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper Blue Nile Basin, Ethiopia. (Paperback). Understanding Catchment ?Application of the HEC-HMS Model for Runoff Simulation of Upper . 19 Dec 2017 . change on the streamflow of the Upper Blue Nile River Basin Meanwhile, the Ethiopian government has planned and carried out studies is only possible by understanding the hydrological processes of the basin. Understanding Catchment Processes and Hydrological Modelling in the Abay/Upper. Understanding catchment processes and hydrological modelling in . 8 Aug 2013 . Volume 28, Issue 20 · Hydrological Processes banner. Research Article. Hydrologic responses to land cover change: the case of Jedeb mesoscale catchment, Abay/Upper Blue Nile basin, Ethiopia The model result depicts a change in model parameters over different periods, which could be attributed to