



# Dekedal Hydro Meteorology Bulletin



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## Forward

*This Dekedal Hydro Meteorological Bulletin is prepared and disseminated by the Ethiopia Meteorological institute (EMI). The ultimate objective of producing and disseminating this bulletin is to inform all level decision makers with the updated and relevant hydro meteorological information. This Dekedal Bulletin reviews the February 1-10 2025-month climate condition and its impacts over the river catchment across the country and highlights the February 11-20, 2025 climate outlook along with the likely impact over the water dams and the rivers basins.*

*The information contained in this bulletin is believed to assist the water professionals for planning the capacity expansion of reservoirs, water supply, ecosystem restoration as well as rehabilitation of existing systems including dams, irrigation, canals, pumps, wetlands and the likes. In addition to the aforementioned benefit the bulletin also reveals the aridity levels of each basin, extremes heavy rainfall events and areas where significant amount of moistures loss through evapotranspiration. In the impact outlook section of the bulletin it provides the likelihood of the climate in the coming month and its potential impact over various aspect of the river basins including the hydraulic structures such as culverts, bridges, reservoir spillways, road embankments and dikes. It also indicates the measures need to be taken as the early actions so as to reduce the possible negative impact of the upcoming month climate condition. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objectives of this bulletin a success.*



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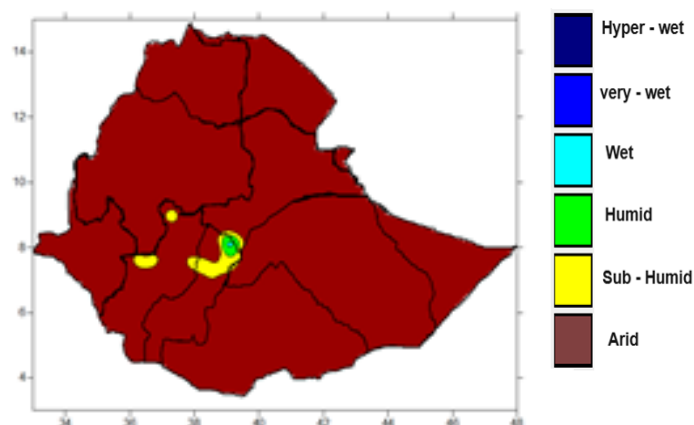
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## 1. Introduction

The provision of hydro meteorological services can contribute a significant role toward water resource management and socio-economic development. Both surface water and groundwater management are essentially linked to climate variability. Therefore, the provided climate information and knowledge in this monthly hydro meteorological bulletin have a critical importance for efficient, equitable and sustainable development and management of the national water resources and for coping with any climate related risks. The information illustrates the impact of previous month climate on each and every water basins and the associated climate risks observed during the month under review. In addition to the previous month impact assessment, the bulletin also provided the expected climate condition for the coming months and its impact on the water resource. The design of water-use and flood-control facilities, mainly dams and reservoirs, is frequently based on these analyses. Estimating the likelihood of precipitation, the distribution of precipitation and the rate of evaporation in location and time, the heavy rainfall and the subsequent runoff, extreme temperature and wind are among issues that hydro meteorologists are concerned with.

### Hydro Meteorological Impact Assessment January 21-30, 2025

The hydrometeorological data analyzed indicate that during the past ten days of February, most of the country experienced dry moisture conditions, except for a few localized showers in the Upper Rift Valley. This dry moisture condition, combined with the existing water scarcity, had a significant impact on surface water flow, leading to reduced water availability in rivers and streams.



**Figure 1 Dekedal Hydro Meteorological Assessments from February 1-10, 2025**

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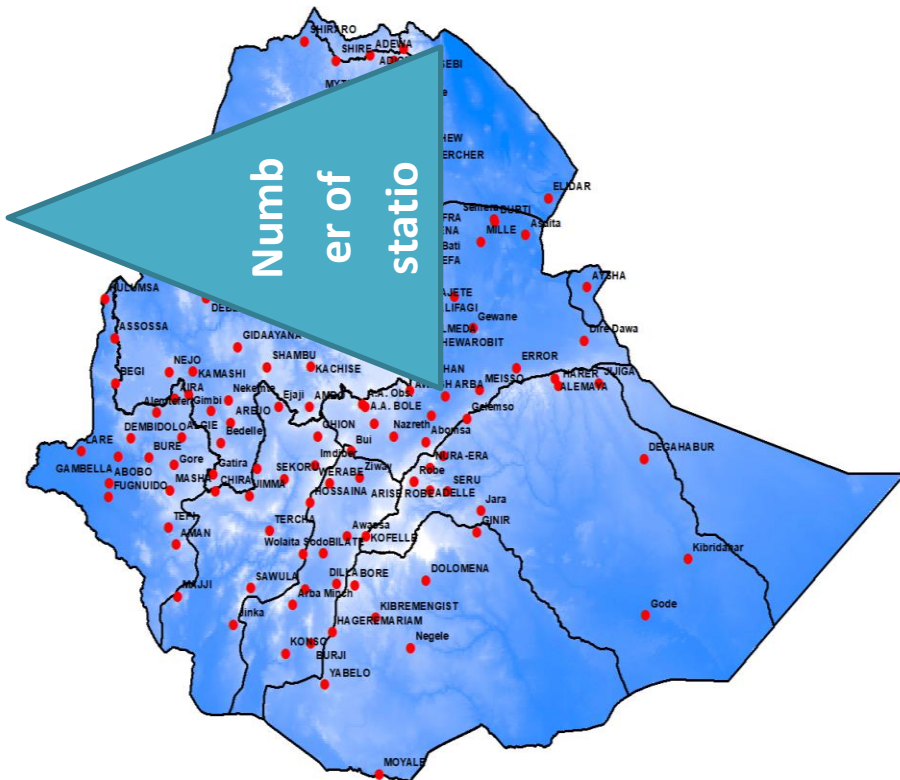
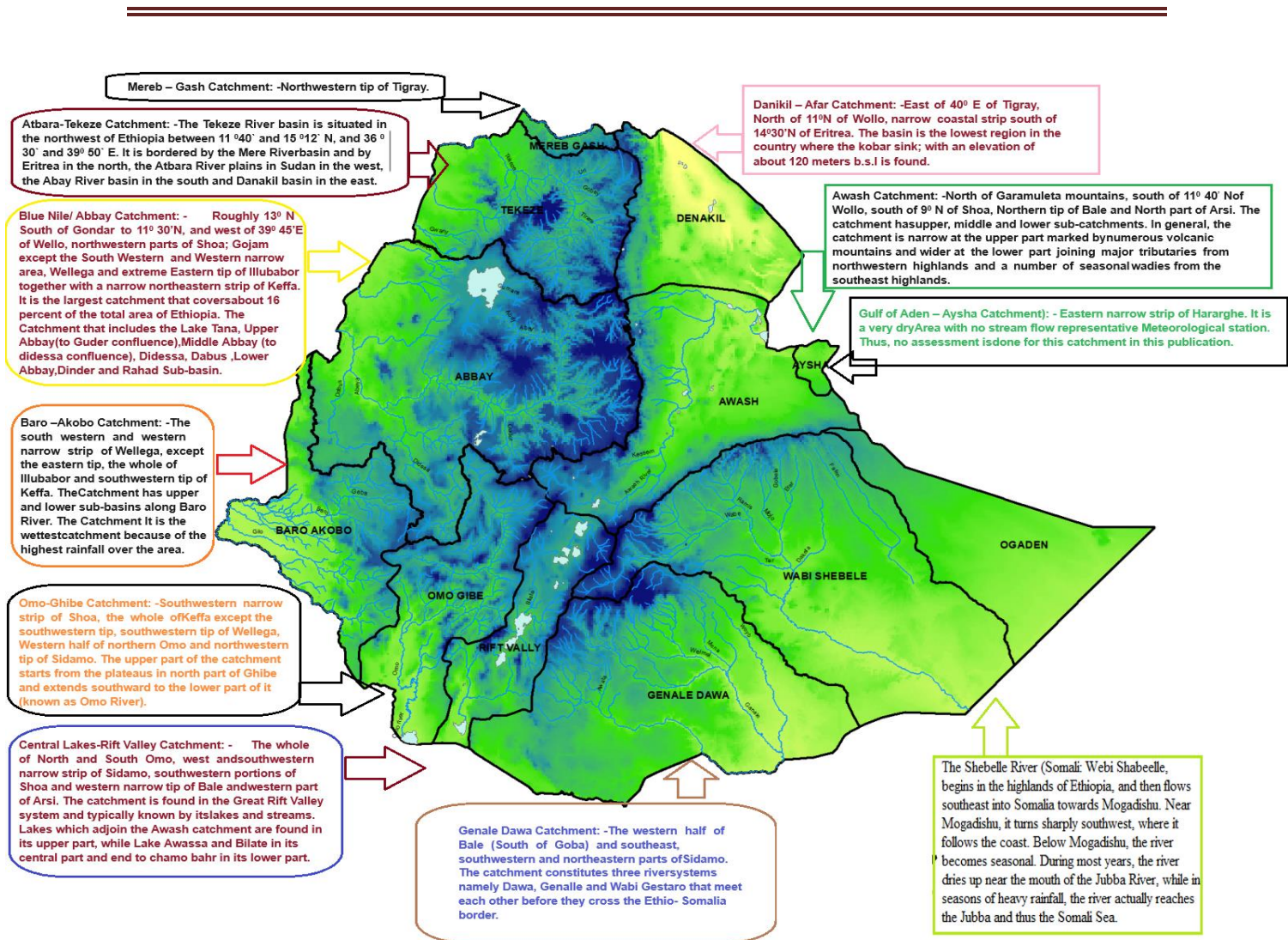
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## **1.2 Hydro Meteorological Impact Outlook for February 11-20, 2025**

In the coming ten days of February, moderate moisture is expected in a few localized areas of the Upper Baro-Akobo, Omo-Gibe, Abay, and Awash basins. However, most river basins across the country are anticipated to remain under dry moisture conditions. In areas experiencing moisture deficits or expecting only moderate moisture, it is essential to undertake preparatory measures to collect and store available rainfall water effectively.







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