

Dekadal Hydro Meteorology Bulletin

November 11-20, 2026 Assessment | November 21-30, 2026 Outlook



Foreword

This Dekadal Hydro Meteorological Bulletin is prepared and disseminated by the Ethiopian Meteorological Institute (EMI). The ultimate objective of producing and disseminating this bulletin is to inform decision makers at all levels with updated and relevant hydro meteorological information. This Dekadal Bulletin reviews the November 11-20, 2026 climate condition and its impacts over the river catchments across the country and highlights the November 21-30, 2026 climate outlook along with the likely impact over the water dams and the river basins.

The information contained in this bulletin is believed to assist water professionals in 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 like. In addition to the aforementioned benefits, the bulletin also reveals the aridity levels of each basin, extreme heavy rainfall events and areas where a significant amount of moisture is lost through evapotranspiration. The impact outlook section of the bulletin provides the likelihood of the climate in the coming dekad and its potential impact on various aspects of the river basins, including hydraulic structures such as culverts, bridges, reservoir spillways, road embankments and dikes. It also indicates the measures that need to be taken as early actions to reduce the possible negative impact of the upcoming climate condition. Meanwhile, your comments and constructive suggestions are highly appreciated to make the objectives of this bulletin a success.

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 climate information and knowledge provided in this dekadal 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 the previous period's climate on each water basin and the associated climate risks observed during the period under review. In addition to the impact assessment, the bulletin also provides the expected climate condition for the coming period and its impact on water resources. 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 the issues that hydro meteorologists are concerned with.

Hydro Meteorological Impact Assessment November 11-20, 2026

During the second dekad (ten-day period) of November, moderate to high surface water flows were observed across most of the Omo-Gibe, Baro-Akobo, Genale-Dawa, Rift Valley, Upper and Middle Abay and Upper Tekeze basins. Very high surface water flows were recorded particularly over the Middle and Lower Omo-Gibe, Upper Baro-Akobo, Rift Valley and Upper Abay basins, as well as parts of the Upper Tekeze basin. The analyzed hydro meteorological data indicate that these conditions strengthened soil moisture and surface water flow and made a good contribution to surface water resource inputs. In addition, low to moderate surface water flows were observed over parts of the Lower Tekeze, Lower Genale-Dawa, and Lower Wabi Shebelle and Ogaden basins, which brought a limited improvement to local water conditions. The remaining Upper and Middle Wabi Shebelle, Upper, Middle and Lower Awash, Aysha, Danakil, Lower Abay and Lower Baro-Akobo basins remained mostly under dry conditions.

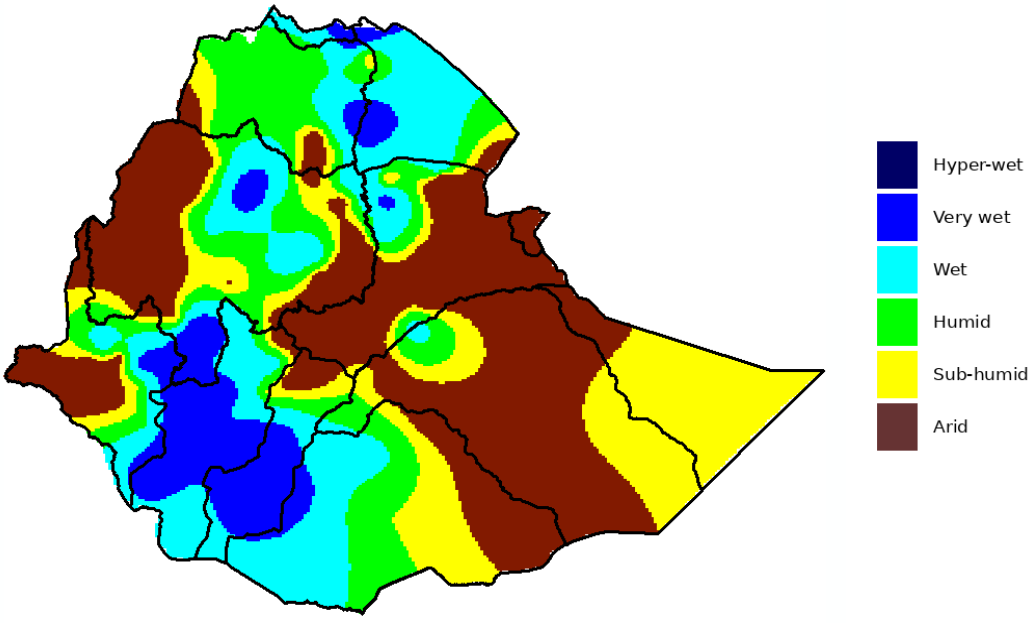


Figure 1 Dekadal Hydro Meteorological Assessment for November 11-20, 2026

Hydro Meteorological Impact Outlook for November 21-30, 2026

During the third dekad of November (November 21-30, 2026), moderate to high surface water flow is expected over the Rift Valley, Omo-Gibe and Upper Baro-Akobo basins. This may have both positive and negative impacts on the water resources of these basins. Relevant

stakeholders are therefore advised to follow the basin-specific hydro meteorological advisories below.

Expected Surface Water Condition	River Basins	Positive Impacts	Negative Impacts	Hydrometeorological Advisories
Moderate to High Surface Water Flow	Rift Valley, Omo-Gibe, Upper Baro-Akobo and parts of Upper Genale-Dawa basins	• Increased water levels in rivers and dams. • Improved water storage for irrigation and hydropower. • Increased surface and groundwater resources.	• Flash floods. • Soil erosion and sediment risk. • Blockage of drainage systems by waste. • Contamination of water sources.	• Clean flood drainage channels. • Harvest rainwater and monitor dam water levels. • Do not attempt to cross flowing water.
Low to Moderate Surface Water Flow	Lower Omo-Gibe, Rift Valley, Genale-Dawa, Wabi Shebelle and Ogaden basins, and parts of the Abay basin	• Improved drinking water supply. • Moderate filling of rivers and small water reservoirs.	• Blockage of drainage systems. • Reduced water levels due to evaporation.	• Harvest rainwater from roofs and ground surfaces. • Use water resources wisely. • Clean drainage systems.
Dry Surface Water Flow	Tekeze and Mereb-Gash, Awash, Afar-Danakil and Upper Wabi Shebelle basins	• No flood or sediment risk.	• Reduced water levels due to evaporation.	• Use the available water resources wisely. • Harvest modest rainwater and protect water from wastage and contamination. • Prepare for dry-season water supply.

