Investment Phase:

Peer Advisor Semi-Annual Report

Ethiopia

July 2025

Submitted by

Norwegian Meteorological Institute

Systematic Observations
Financing Facility

Weather and climate data for resilience

General Information

Country	Ethiopia	
Peer Advisor	Norwegian Meteorological Institute	
Implementing Entity	UNDP	
Agreement effectiveness date	27 August 2024	
Duration	36	
Anticipated end date	26 August 2027	
Reporting period	**From:** January 2025	**To:** June 2025
Approved peer advisory fee	683,505.00 USD	
Disbursed peer advisory fee	227,812.00 USD	
Percentage of financial implementation	33.33	
Peer advisor's focal point signature		
Country's focal point signature (to confirm timely and quality delivery)		

Summary

Since the last semi-annual report, MET Norway has achieved several implementation indicator goals. A successful in-country field mission was conducted in May 2025. The mission aimed to to bring together and strengthen collaboration between key SOFF investment phase partners in Ethiopia, MET Norway, UNDP, ETH-SOFF PMU unit, and EMI SOFF technical task team, review operational advancements, and ensure alignment across infrastructure deployment, calibration, data quality, and system sustainability within the SOFF framework. The peer advisory team consulted with stakeholders, analyzed EMI's operational background, and validated on-the-ground implementation. The mission focused on identifying capacity building in areas like station setup, maintenance, metadata documentation, traceability, calibration procedures, and data transfer in alignment with WMO standards for GBON stations. We visited the EMI regional center in Adama, the new EMI headquarters, and the Meteorological Institute in Addis Ababa, which provided insights into future capacity and capabilities. The mission also visited Ethiopia's National Calibration Center to understand its meteorological metrology capabilities and how to leverage them to achieve EMI's goal of establishing its own calibration lab. A detailed mission report is provided in annex 1

During this reporting period, MET Norway also reviewed the procurement tender documents for the Automatic Weather Stations (AWS) and upper air stations in correspondence with EMI. Additionally, MET Norway assisted with the tender document for the EMI calibration laboratory and provided standard procedure documents for the documentation of metadata and surface station characteristics. During this time, we also shared our technical experience on MET Norway's SOP requirement when performing station inspection.

The peer advisory team regularly meets (bi-weekly) with UNDP and ETH-SOFF PMU to discuss project progress and identify support areas. We also participate in monthly meetings with other peer advisors in the Water at the Heart of Climate Action (W@HCA) project countries to identify potential areas for synergies. In June 2025, MET Norway participated in the W@HCA Regional Learning Assembly workshop in Addis Ababa.

MET Norway has participated in SOFF's webinars, which have been beneficial for peer advisory work. In May 2025, the MET Norway team hosted the SOFF director at the MET Norway office in Oslo.

MET Norway is planning capacity-building activities in Oslo, including a calibration workshop, for the second half of 2025.

Implementation progress

Services or activities listed in the peer advisor's ToR and assignment agreement must be included in the category "activities conducted/contribution" below. Sections that are not relevant or covered in the TOR can be left blank.

Output	Indicator (Please copy the indicators from RBM section of the funding request)	Activities conducted/contributions (Please list all activities that will be conducted by the peer advisor relevant to the output. Please add rows if more than one activity will be conducted)	**Implementation plan[1]**					Status	Challenges and risks
			Y1	Y2	Y3	Y4	Y5		
1. GBON institutional and human capacity developed									
1.1 National consultations, including with CSOs and other relevant stakeholders, were conducted	# of inception workshops	Participate in the project inception workshop at the national level	1					Achieved	
	# of stakeholder workshops	Participate and contribute at the project inception and consultative workshops at the national level	1					Not achieved	The workshop organised was feasible for national and regional stakeholders with a

[1] Indicate which year the activity is targeted to be conducted

									focus on civil works.
	# of sub-national workshops	Consultative workshop at 11-RMSC on station security with key stakeholders Participate in In-country field missions and consultations Contribute to the gender equality workshops, where feasible and desirable, to advocate for gender equality in the SOFF activities in Ethiopia	X	X	X			On track	Consultative workshops at EMI's regional centres are well managed by the ETH-SOFF PMU unit, and the EMI SOFF technical task team
1.2 NMHS institutional capacity required to operate the GBON network developed	# of project staff	Support in the establishment of a full staff PMU and a project execution team, including project management	3					Achieved	
	% female participants	Promote gender equality by supporting the establishment of a threshold for female participation in SOFF-related activity in Ethiopia.		25 %				Not achieved yet	

	#SOPs developed	Co-development of training activities based on the needs identified by Ethiopia's NCP in alignment with the Institutional Support and Capacity Building for Weather and Climate Services SAREPTA between EMI and MET Norway	X	X	X			On track	
1.3 NMHS human capacity required to operate the GBON network developed	# Training and capacity-building initiatives	Provide on-demand technical support on : • establishment of SOP for surface and upper air observations practices, including data quality control and quality assurance mechanisms. • AWS data integration, climate database management systems, data archiving, and post-processing. • Data communications techniques WIS 2.0 training. • Weather station and sensor maintenance, sensor calibratio,n and network monitoring Capacity building through benchmarking of good practices at Met Norway						On track	

	# EMI Staff reinforced	• Support in the recruitment process of observers, IT and Technical Staff, and project management staff • Co-creating a roadmap for future capacity needs and priorities	3	5				On track	
	Station GBON-compliant metadata strategy developed	Provide on-demand technical advice on:- • global SOPs for AWS operations, including tailored capacity development • station-level metadata databases. • Provide guidance on the process for metadata collection, ingestion, analysis, monitoring, and reporting. Co-develop a station GBON-compliant metadata strategy. Facilitate regional exchange and training in conjunction with other peer advisors from the Greater Horn of Africa (GHA)	X	X				On track	
2. GBON infrastructure in place									

2.1 New land-based stations and related equipment, ICT systems, data management systems, and standard operating practices in place	# of new stations installed as per the GBON National Contribution Plan	• Technical advisory services to support the AWS tender process and the IT hardware tender process • Facilitate benchmarking of good practices in MET • Provide necessary pre-installation training to supplement onsite and factory-level level • Technical guidance on the most effective WIS 2 Node deployment options for EMI •		7	6			On track	
2.2 Improved land-based stations and related equipment, ICT systems, data management systems and standard operating practices in place	# of stations improved as per the GBON National Contribution Plan	• same as 2.1		8	8			On track	

2.3 New upper air stations and related equipment, ICT systems, data management systems, and standard operating practices in place	# of new stations installed as per the GBON National Contribution Plan	Technical support on • radio sounding tender process, procurement, and installation • Development of SOPs for O&M of Upper Air Station • Development of automatic data transfer solutions for files from radiosondes		2	1			On track	
2.4 Improved upper air stations and related equipment, ICT systems, data management systems and standard operating practices in place	# of stations improved as per the GBON National Contribution Plan	Same as 2.3	1	1				On track	
3. Sustained compliance with GBON									

3.1 GBON land-based stations' commissioning period completed, country-specific standard cost for operations and maintenance established, and data sharing verified by WMO Technical Authority	# of stations commissioned as per the GBON National Contribution Plan	• Technical support on the procurement of a calibration instrument and setting up a calibration unit/laboratory • On-demand technical support for GBON compliance, including advisories on stations' operational and maintenance plans • Facilitate regional trainings where feasible and desirable		17	12			On track	

3.2 GBON upper air stations' commissioning period completed, country-specific standard cost for operations and maintenance established, and data sharing verified by WMO Technical Authority	# of stations commissioned as per the GBON National Contribution Plan	• On-demand technical support for GBON compliance • Ensure the radiosonde operations meet the requirements of safety and quality. • Contribution to final reporting		2	3			On track	

Annexes

Annex 1:MET Norway's Mission to Ethiopia Report [link] (See attached)