



Regional Workshop on
FRAMEWORK & TOOLKIT DEVELOPMENT
for Impact-Based Forecasting of Temperature-Related Hazards

24-28 NOVEMBER 2025 | BANGKOK, THAILAND

CONCEPT NOTE AND AGENDA

One of the most pressing and rapidly worsening climate-related threats in South Asia is temperature extremes. Climate change is amplifying the frequency, intensity, and duration of temperature-related hazards, which include not only heatwaves but also cold spells and unseasonal low-temperature events. These extremes pose serious threats to public health, livelihoods, and infrastructure across the region. Rapid urbanization, widespread poverty, and a high dependency on climate-sensitive sectors – such as agriculture, water, health, and infrastructure – make the region exceptionally more sensitive to the growing impacts of climate change, particularly temperature extremes. These challenges highlight the urgent need to transition from conventional weather warnings to impact-based forecasting (IBF) that integrates hazard, exposure, and vulnerability information to provide actionable insights for decision-makers.

In response, the Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES), in partnership with the UK Met Office through the Weather and Climate Information Services for Asia and the Pacific (WISER-AP) Programme, is implementing the South Asia Hydromet Forum (SAHF) IBF Working Group (WG) Project. This initiative aims to support South Asian countries in developing the scientific, institutional, and operational frameworks required to deliver IBF services, with initial focus on temperature-related hazards such as heatwaves and cold waves.

This regional workshop contributes to the project by facilitating the co-development of a regional Framework and Toolkit for IBF of Temperature-Related Hazards – a crucial output that will form the foundation for national demonstration activities and regional harmonization in 2026.

WORKSHOP OBJECTIVES

The workshop aims to:

1. Co-develop a regional framework and toolkit for IBF of temperature-related hazards, aligned with WMO service delivery principles.
2. Establish regional guidelines and selection criteria for national demonstration projects under the SAHF IBF initiative.
3. Support participating countries in designing draft national demonstration workplans, integrating MEL, GESI, and risk management components.
4. Consolidate outputs into a preliminary regional package (Framework v1, Toolkit v1, demo guidelines, and draft country workplans) to guide 2026 implementation.

EXPECTED OUTPUTS

By the end of the workshop, participants will have jointly produced:

- Draft Regional IBF Framework v1 outlining governance, data, thresholds, triggers, and communication pathways;
- Draft Toolkit v1, including methodological templates, data workflow models, and user communication materials;
- Agreed guidelines and selection criteria for country-level demonstration projects; and
- Draft national demonstration workplans integrating MEL, GESI, and risk components.

WORKSHOP PARTICIPANTS

The workshop will bring together representatives from:

- National Meteorological and Hydrological Services (NMHSs)
- Relevant user agencies (e.g., health, agriculture, disaster management, etc.)
- Development partners engaged in the SAHF IBF Working Group

ADMINISTRATIVE DETAILS

Date: **24–28 November 2025**

Venue: **Grand Center Point Hotel, Ratchadamri, Bangkok, Thailand**

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WORKSHOP AGENDA

Day 1 - 24 NOV 2025: Baseline, National Priorities, and IBF Best Practices

Time	Session	Lead / Speaker(s)	Content
09:00 - 09:30 (30 mins)	Welcome and Opening Remarks and Introductions	RIMES, UKMO, WMO	Launching of the workshop, presentation of objectives, expected outputs, and agenda for the week; Participant introductions
09:30 - 09:50 (20 mins)	Session 1: Baseline Assessment: Findings and Country Validations	RIMES	Presentation of baseline assessment results and country-validated findings <u>Output:</u> Validated baseline and mapped national contexts
09:50 - 10:20 (30 mins)	Session 2: Draft Regional Framework Outline and Initial Inputs	RIMES	Introduction of the draft structure of the regional IBF framework, including its core components <u>Output:</u> Shared understanding of the draft framework components
10:20 - 10:35	Coffee / Tea Break		
10:35 - 11:05 (30 mins)	Session 3: Training-of-Trainors (ToT) Requirements, Cascading Model, and Technical Assistance	RIMES, UKMO	Presentation of the ToT approach, requirements for national representatives, and expectations for cascading knowledge in-country. Discuss the roles, selection considerations, and support mechanisms from RIMES and UKMO <u>Output:</u> Agreed ToT nomination requirements and list of initial country support needs
11:05 - 12:15 (70 mins)	Session 4: Regional/National Priorities and Gaps	RIMES, UKMO Workshop Participants	Structured breakout discussions to identify national IBF gaps, priority needs, and opportunities to align solutions with the regional framework <u>Output:</u> Consolidated list of regional and national priorities
12:15 - 13:15	Lunch Break		
13:15 - 14:00 (45 mins)	Session 5: (Temperature-Related) IBF Best Practices and Case Examples	UKMO, RIMES, IMD, PMD (TBC)	Presentations of regional best practices for heat- and cold-related IBF, including lessons from existing guidelines and action plans

14:00 - 14:55 (55 mins)	Session 6: Partner Presentations	Partners: GHHIN WMO ESCAP WFP	Presentations from development and knowledge partners on ongoing and relevant initiatives for linkages and synergies with SAHF IBF priorities
14:55 - 15:10	Coffee / Tea Break		
15:10 - 15:40 (30 mins)	Session 7: GEDSI Integration	RIMES - GEDSI Specialist	Presentation of approaches for integrating GEDSI in temperature-related IBF, including mapping of vulnerable groups and support systems for HW/CW mitigation/impact minimization actions, and inclusive communication and threshold considerations <u>Output:</u> GEDSI checklist for Framework and Toolkit
15:40 - 17:00 (80 mins)	Session 8: MEL, Learning Loops, and Demonstrating Transformational Change	RIMES, UKMO MEL Specialist	Introduction of MEL requirements, proposed templates, and reporting expectations. Explanation of WISER's transformational change focus and how it will be reflected in the framework and demonstrations <u>Output:</u> MEL skeleton for integration into Framework and Toolkit

Day 2 - 25 NOV 2025: Framework and Toolkit Development

Time	Item	Lead / Speaker(s)	Content
09:00 - 09:10	Recap of Day 1	Workshop Participant (to be nominated the day before)	Summary of Day 1 sessions, key points, and outputs
09:10 - 09:40 (30 mins)	Session 9: SAHF Knowledge Hub (SKHub) Community of Practice (CoP) Demonstration	RIMES IT Expert	Demonstration of the CoP feature in SKHub, including how members can join communities, post questions, exchange technical insights, and support continuous collaboration <u>Output:</u> Participants' understanding of how the CoP facilitates knowledge sharing and peer learning across the region

09:40 - 10:35 (55 mins)	Session 10: Governance, Roles, and Coordination Mechanisms	RIMES/ UKMO + Workshop Participants	Co-defining institutional roles, governance structures, and coordination between regional, national, and sub-national actors <u>Output:</u> Draft governance map and role/responsibility matrix
10:35 - 10:50	Coffee / Tea Break		
10:50 - 12:00 (70 mins)	Session 11: Terminologies and core concepts of IBF/IF, understanding the implications for temperature-related hazards	RIMES/ UKMO + Workshop Participants	Introduction of fundamental terminologies and core concepts of temperature-related hazards and IbF/IF Co-development of region-wide hazard (heatwave, cold wave), exposure (who/what is at risk), vulnerability (who is most susceptible), and impact (health, economic, social outcomes) components/indicators <u>Output:</u> Regionally harmonized glossary of core components of temperature-related hazards and IbF/IF
12:00 - 13:00	Lunch Break		
13:00 - 16:45 (with break)	Session 12: Hands-on exercise for co-developing the region-wide components of IBF/IF (Continuation of Session 10)	RIMES/ UKMO + Workshop Participants	Continuation of the previous session with more orientation and hands-on exercise on the components/indicators of temperature-related hazards IBF/IF - Hazard, vulnerability, exposure and impact <u>Output:</u> Key indicators for the temperature-related hazard, vulnerability and exposure
16:45 - 17:00	Preparatory Brief for Day 3	RIMES	Reminders and logistical briefing for the UNESCAP side events under the 5th ESCAP Disaster Resilience Week

Day 3 - 26 NOV 2025: Visit to UN Headquarters (Bangkok) and Participation in SAHF-related Side Events at the 5th ESCAP Disaster Resilience Week

Participants are highly encouraged and expected to attend the following side events, which are closely aligned with the SAHF IBF Project's objectives and activities:

- ***Building Heat Resilience through Subregional and Regional Cooperation: Learning and Perspectives from South Asia***

Meeting Room A | 13:00 – 14:00

Refer here for the session's [Concept Note and Agenda](#)

- ***Understanding Multi-Hazard Risk in Coastal Areas toward Enhancing Adaptation***

Meeting Room A | 16:00 – 17:00

Refer here for the session's [Concept Note and Agenda](#)

Full logistics and movement plan provided separately.

Day 4 - 27 NOV 2025: Framework and National Demonstration Introduction

Time	Item	Lead / Speaker(s)	Content
09:00 - 09:30	Recap of Day 2	Workshop Participant (to be nominated the day before) RIMES / UKMO	Summary of Day 2 sessions, key points, and outputs. Reflections from Day 3 ESCAP Side Events
09:30 - 12:30 (with break)	Session 13: From IBF/IF to operational scenario-based impact forecasting: Case studies and way forward	RIMES, UKMO, National Center for Disease Control (NCDC) India	Presentation of IBF/IF case studies and regional best practices on communication approaches for IBF/EWS Group Exercise: Draft plain-language warnings for different vulnerability groups (elderly, outdoor workers, urban poor) <u>Output:</u> Draft communication templates/messages for the Toolkit; Understanding of IBF process – from operations to action
12:30 - 13:30	Lunch		

13:30 - 14:30 (60 mins)	Session 14: Data, Modelling and Forecast data workflow	RIMES	Identification of data flows (observation, forecast data), APIs, and integration with DSS/portals (SKHub, RDAS) <u>Output:</u> Draft data workflow notes for Toolkit
14:30 - 15:15 (45 mins)	Session 15: Guidelines for National Demonstrations	RIMES	Presentation of the EOI template, selection criteria, and co-development of national demo guidelines <u>Output:</u> Validated guidelines and criteria for national demonstrations
15:15 - 15:30	Coffee / Tea Break		
15:30-17:00 PM (90 mins)	Session 16: Stakeholder and Mechanism Mapping at Country Level	Country Groups with Facilitators	Identification of relevant national stakeholders, vulnerable groups, institutional mechanisms, data systems; align with framework/toolkit modules <u>Output:</u> Stakeholder and mechanism maps per country

Day 5 - 28 NOV 2025: National Demonstrations and Workplan Development

Time	Item	Lead / Speaker(s)	Content
09:00 - 09:15	Recap of Day 4	Workshop Participant (to be nominated the day before)	Summary of Day 4 sessions, key points, and outputs
09:15 - 10:15 (60 mins)	Session 17: Country Draft Workplans	Country Groups with Facilitators	Countries begin drafting full national demonstration workplans (objectives, outputs, roles, timelines) using the Framework and Toolkit
10:15 - 10:30	Coffee / Tea Break		
10:30 – 10:45 (15 mins)	Session 18: People in Need (PIN) – Experience in Nepal	People in Need (PIN)	Presentation on PIN's work in establishing and implementing Heat Action Plans in Nepal
10:45 - 11:00 (15 mins)	Session 19: MEL, GEDSI, Risk in Demonstrations	RIMES / UKMO / Technical Experts	Guidance on integrating monitoring, evaluation, risk management, and GEDSI considerations into draft workplans <u>Output:</u> Workplans incorporating MEL, GEDSI, and risk components.

11:00 - 12:30 (90 mins)	Continuation of Session 17: Country Draft Workplans	Country Groups with Facilitators	Continued drafting and refinement of workplans
12:30 - 13:30	Lunch		
3:30-15:00 PM (90 mins)	Session 20: Presentations of Country Workplans	Country Groups	Presentation of draft national demonstration plan per country; peer and partner feedback <u>Output:</u> Refined workplans
15:00 - 15:30 (30 mins)	Session 21: Roadmap to Implementation	RIMES/UKMO + All Participants	Agreement on timeline for EOI submission, technical review process, final selection of demo sites, and upcoming meeting schedule <u>Output:</u> Implementation roadmap and key milestones
15:30 - 15:45	Coffee / Tea Break		
15:45 - 16:15 (30 mins)	Workshop Closing and Reflections	RIMES/UKMO + All Participants	Closing reflections, commitments, and next steps; formal closing remarks