SOUTH ASIA HYDROMET FORUM

Regional Integrated Multi-Hazard Early Warning System RIMES

WISER Weather and Climate Information Services

Supported by:

UK International Development Partnership | Progress | Prosperity

Met Office

REGIONAL WORKSHOP ON IMPACT-BASED FORECASTING:

Training-of-Trainers and National Demonstration Planning for Temperature-Related Hazards

SAHF IBF Working Group Implementation Plan Project

09-13 February 2026

Kathmandu, Nepal

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Heat and cold Risk Reduction through impact based Forecasting for Afghanistan/AMD

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1. National Demonstration Plan Overview

A1. Proponent Information	• NMHS (Lead) Afghanistan meteorology department (AMD) • Sector Co-Lead (e.g., Health / Livestock / Agriculture / water Energy etc. ANDMA • Other implementing partners (local government / CSO / academia / community level orgs)
A2. Focal Contacts	• NMHS Lead Focal (overall): Nasim muradi Director of AMD , nasim.muradi786@gmail.com • +93744496989
A3. Demonstration Project Title	IBF SHAF forecast for Heat and cold
A4. Geographic Scope	West, north and central part of the country
A5. Seasonal Focus	Heat o Cold √ Both
A6. Duration of Demonstration	Start Date :January / 2026 End Date :April 2027: Heat-focused demos: Jun-July August 2026 (implementation); Sep-Nov 2026 (review) Cold-focused demos: Nov-Feb2027 (implementation); Feb 2027 (review)

2. Temperature Risk Context and Intended Outcomes

Afghanistan faces rising temperatures, bringing heatwaves, drought, and seasonal variability. Mountain (central) and arid regions (west and north) are particularly vulnerable, impacting agriculture, health, food security, and infrastructure. The goal is to identify patterns of heat and cold intensity, distribution, and timing, and to leverage both observed and community data to pinpoint hotspots for action.

Intended Outcomes:

- Strengthen community resilience with locally tailored heat-health and drought interventions.
- Improve decision-making for authorities and emergency services through early-warning tools and resource allocation.
- Build institutional capacity (local agencies, universities, private sector) for data collection, risk analysis, and policy Translation.
- Protect public health, food security, and critical infrastructure; enhance water and energy governance; safeguard ecosystems.

Suggestion: Refer to Sections B1 (Problem Statement) and B2 (Objectives & Intended Outcomes) of the Concept Document.

3. Stakeholders, Roles, and Coordination Approach

Outline the key stakeholders involved in the demonstration and how coordination with sector partners is planned or currently taking place across the implementation period.

Please cover:

- Core team members involved (NMHS, sector agency/ies, and other partners)
- How coordination is expected to work before, during, and after the target season
- Any existing or planned SOPs, MoUs, or informal coordination arrangements NO AMD working to with stakeholder for MoUs
- Current status of coordination, or how engagement will be initiated following this workshop (e.g., planned meetings or consultations, at what level whether subnational, local gov't. or community, etc.)
- Informal

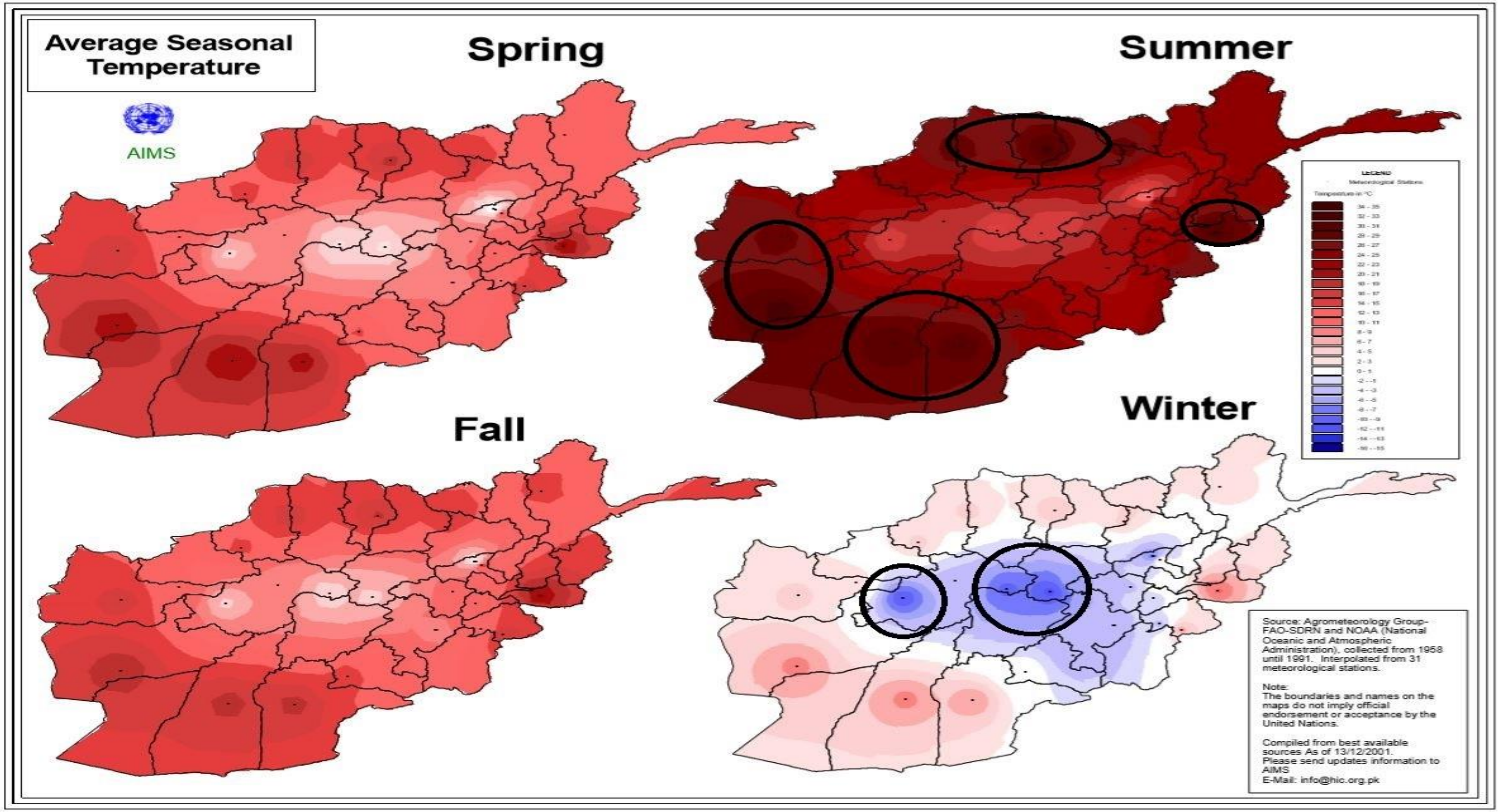
Suggestion: Refer to Section B3 (Stakeholder and Governance) of the Concept Document.

- ✓ANDMA
- ✓MEW
- ✓MRRD
- ✓MOFA
- ✓MILE
- ✓Ministry of Interior
- ✓Ministry of finance
- ✓Ministry of Health
- ✓Ministry of Communication
- ✓Ministry of Education
- ✓Ministry of Defence
- ✓Agha Khan Foundation

- ✓ WMO
- ✓ SAMA
- ✓ WB
- ✓ RIMES,
- ✓ IFRC
- ✓ UNDP

AMD.GOV.AF/WhatsApp/Email ,Facebook,Media

4. Pilot Area/s and Target Groups



5. Data, Indices, Triggers and Thresholds

Summarize the data and indicators available to support the IBF demonstration, initial thinking on indices, triggers, or thresholds (including inputs from partner sectors where available), and any gaps, limitations, or support needs identified.

Please cover:

- Key data inputs currently available Data available from 2005 up to now from all AMD Stations (Gaps from 1977-2005) (e.g., meteorological data, exposure or vulnerability data, sector-specific information) and gaps
- Indices or indicators currently used or being considered (AMD Research division using Indices that AMD use fir Drought we use SPI Index)
- Initial thinking on triggers or thresholds, including any considerations raised by partner sector agencies, if available
- Main data, methodological, or operational limitations and uncertainties yes other yes ,
- Technical or institutional assistance that may be needed to refine this component yes all partners and stakeholders should assist AMD.

Suggestion: Refer to Sections B5 (Data Inventory) and B6 (Method: Index, Thresholds) of the Concept Document.

6. From Forecast to Action: Products, Communication & SOPs

خبرداری!

د اعتبار موده: د ۱۴۰۴ کال د چنګاښ ۱۱ نېټې څخه تر ۱۶ نېټې پورې

په لاندې ولایتونو کې د تودوخې درجې لوړېدو اټکل:

په شمال ختیځو، شمالي، لوېدیځو، سوېلي او مرکزي ولایتونو کې **د تودوخې درجې لوړېدو** اټکل کېږي.

هشـــدار!

مدت اعتبار : ۱۱ الی ۱۶ سرطان سال ۱۴۰۴ خورشیدی

احتمال افزایش درجه حرارت درولایات ذیل پیش بینی میگردد:

در ولایت های شمال شرقی، شمالی، غربی، جنوبی و مرکزی **احتمال افزایش درجه حرارت** پیش بینی میگردد.

WARNING!

Validity time: 2 up to 7July 2025

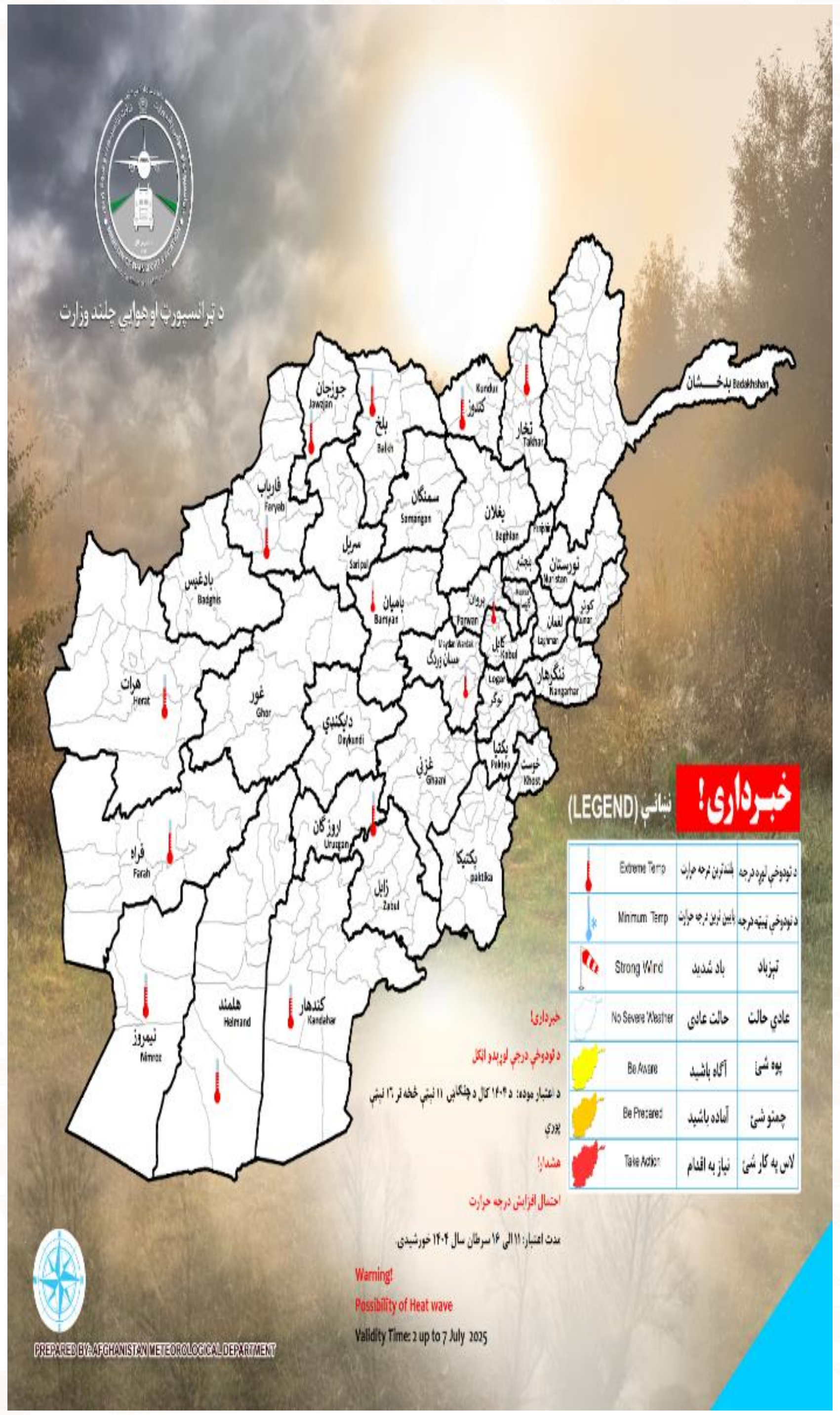
Possibility of Heat wave for the following provinces:

Possibility of a Heat Wave in Northeastern, Northern, Western, Southern and Central Provinces.

AMD

د هوا د هوا حالاتو په اړه د لا زیاتو معلوماتو لپاره د ترانسپورت او هوایي چلند وزارت د هوا پېژندنې ریاست ویب پاڼې ته سر ورښکاره کړئ.

AMD.GOV.AF



شماره	ولایات	در چند ولسوالی	نوع حادثه طبعی										
			رعد وبرق	زلزله	سیلاب	سردی هوا	برف کوچ	باد و طوفان	فروریختن کوه	بندش راه	فروریختن خانه	باران شدید	فروریختن معدن
1	کابل	8			6								
2	پروان	8			8					5			
3	کاپیسا	14			0							14	
4	پنجشیر	6			3							3	
5	ننگرهار	13			4							7	
6	لغمان	6			12				1	1			
7	کنر	32	5		18			5	1	12	1	0	
8	نورستان	7	0		52			0	0	15	14	0	
9	لوگر	7	0		4	1		0	0	0	0	3	
10	وردگ	5			5								
11	غزنی	10			2							8	
12	پکتیا	3			3				2				
13	پکتیکا	30	1	2	18	4						5	
14	خوست	5			2			1	1			1	
15	بامیان	5	1		2		2						
16	کندهار	2			2								
17	زابل	6			12			13					
18	ارزگان	15	14		14			14		2		1	
19	دایکندی	19	38		69	1		54					
20	هلمند	20	6		55			25		7		26	
21	نیمروز	6			3								
22	هرات	25	6		33			4	1	2			
23	غور	23	1	1	14					5			
24	بادغیس	9	1		6				1				
25	فراه	20	3		8			4	1	1	3		
26	بلخ	4	1		1							2	
27	سمنگان	14			27				2	18			3
28	جوزجان	9	14		18			10					
29	فاریاب	19	1		22		1						
30	سرپل	2	1		2								
31	بغلان	11			16								
32	کندز	1			1								
33	تخار	37	35		44				5	15			5
34	بدخشان	6			8			2					

7. Assistance, Guidance, and Support Required

- AMD Has Historical observation Data and fell data gap and connect to GTS ,WIS
- AMD met station will expand and need technical support
- AMD needs spare part for weather stations
- National and Global forecasting module for forecast with high resolution for AMD
- Technical support for installation configuration of forecasting module for AMD
- AMD staff training and support for different filed

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