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MOST IMMEDIATE / BY FAX



F.2 (E)/2024-NDMA (MW/GLOF-Alert-II) Government of Pakistan Prime Minister's Office National Disaster Management Authority (HQ) Main Murree Road, Near ITP Office, Islamabad

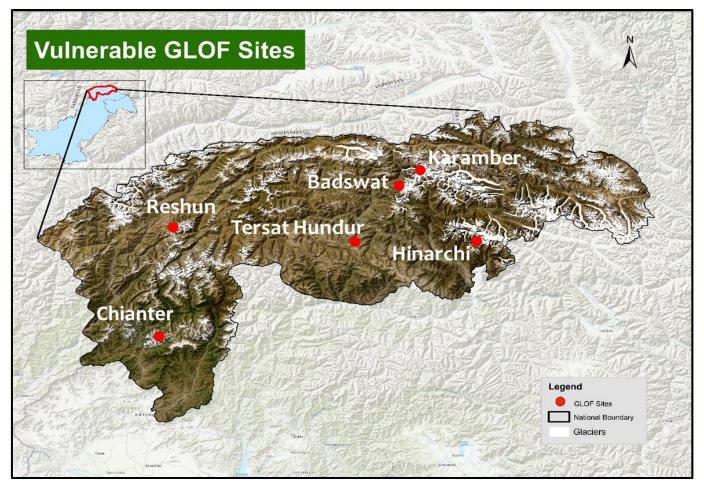


Dated: 21 May 2024

Subject: GLOF ALERT – KHYBER PAKHTUNKHWA & GILGIT BALTISTAN

Reference: NDMA Letter No. F.2(E)2024-NDMA (MW/Summer Guidelines) dated 17 May 24

GLOF Alert for Khyber Pakhtunkhwa and Gilgit Baltistan (enclosed as "Annex-A") has been issued. Rising temperatures and prevailing weather conditions are expected to keep **Daytime Temperatures** between 4-6°C Higher than Normal and bring to gusty winds / thunderstorms at isolated places from 21 May to 27 May 2024. This combination could significantly increase the flow in rivers and associated streams & nullahs, raising chances of GLOF Events, flash floods, landslides / mudslides, in vulnerable mountainous areas of Khyber Pakhtunkhwa and Gilgit Baltistan (NDMA GLOF Risk Projection Map enclosed as "Annex-B"). Map outlining the most vulnerable GLOF sites in KP & GB is as below: -



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2. In light of **prevailing weather conditions** / **situation** all concerned Federal Ministries / Departments, respective Provincial Governments, PDMA Khyber Pakhtunkhwa, Gilgit Baltistan Disaster Management Authority (GBDMA), Provincial Line Departments including Irrigation Departments, District Administrations / DDMAs and Municipal Administrations **are advised to ensure following along with any other measures deemed necessary**: -

- PDMA KP / GBDMA / Respective DDMAs to undertake proactive monitoring and surveillance of vulnerable GLOF Sites in order to ensure timely early warning and response.
- b. DDMAs to conduct evacuation drills in at-risk communities in order to ensure full preparedness.
- c. All civic agencies / rescue services (Rescue 1122 / Fire Brigade / Ambulance / Civil Defence) to remain alert and ensure availability of personnel and equipment during the forecasted period.
- d. **Mass awareness campaign for general public** on GLOFs in at-risk areas covering following aspects: -
 - Avoid unnecessary movement in such areas, especially the discharge nullahs/ streams and rivers.
 - (2) Risk, consequences and danger of **washing away of vehicles** in fast-flowing water channels.
 - (3) Alerting general masses living in low-lying areas to exercise extra caution including community-based alert system.
 - (4) **Evacuation plan** of at-risk community and its timely evacuation.
- e. LEAs / Traffic Police advise travelers regarding likely situations / dangers and safety measures.
- f. NH&MP and Traffic Police to coordinate with Law Enforcement Agencies to manage and redirect traffic from affected areas to safer areas, to prevent congestion and facilitate emergency response efforts.
- g. PDMA KP / GBDMA / Respective DDMAs to ensure that safe evacuation sites are fully stocked and ready for utilisation in case of any eventuality.
- h. Preplace **necessary emergency equipment** at vulnerable / strategic locations to **expedite response efforts** and complete stocking / replenishment of stocks.

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- Coordinate with concerned departments (NHA, FWO and C&W) for restoration of roads in case of any blockage / obstruction / closures and preplacing of necessary emergency equipment at vulnerable / strategic locations.
- j. Local Administration / Police / Rescue Services to alert population residing in low lying areas.
- k. Ensure round the clock monitoring mechanism/ arrangements through all possible means / resources, especially involving the local communities for immediate dissemination of early warnings.
- I. In-case of any eventuality, routine updates will be shared with NDMA.

3. <u>SUPARCO Analysis</u>. Regular monitoring of all vulnerable GLOF sites is being undertaken by SUPARCO and is available on SUPARCO – SACRED Disaster Watch Portal. Apropos, satellite imagery analysis of Badswat GLOF Site on 20 May 2024 has been undertaken by SUPARCO and has shown that a slight increase of 0.079 km² in lake size has occurred between 14 February and 14 May 2024. SUPARCO Imagery is included at *Annex-C*.

4. <u>**Press Information Department (PID) Only**</u>. With the request to ensure wider circulation and public awareness.

5. Forwarded for information / necessary action, please.

Hammad Sadiq Rana) Director (Response) Tel No: 051-9030924 Fax No: 051-9030729

(**DISTRIBUTION LIST BELOW**)

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DISTRIBUTION LIST

To: Chief Secretary, Government of Khyber Pakhtunkhwa, Peshawar Chief Secretary, Government of Gilgit-Baltistan, Gilgit Director General, PDMA Khyber Pakhtunkhwa, Peshawar Director General, GBDMA Gilgit Baltistan, Gilgit Director General, Rescue 1122 Khyber Pakhtunkhwa, Peshawar Director General, Rescue 1122 Gilgit Baltistan, Gilgit Chairman, National Highways Authority (NHA), Islamabad Director (RAMS), National Highways Authority (NHA), Islamabad Principal Information Officer, Press Information Department, Islamabad General Manager (SACRED), SUPARCO, Islamabad Headquarters, Frontier Works Organization (FWO), Rawalpindi National Transmission & Dispatch Company, Islamabad Headquarters, National Highways & Motorway Police (NH&MP), Islamabad Headquarters, Force Commander Northern Areas (FCNA), Gilgit Cc: Secretary to Prime Minister, PM Office, Islamabad Secretary, Cabinet Division, Islamabad Secretary, Ministry of Climate Change, Islamabad Chairman Federal Flood Commission, Islamabad Director General, Pakistan Meteorological Department (PMD), Islamabad Joint Crises Management Cell, Joint Staff Headquarters, Chaklala Military Operations Directorate (MO-4), General Headquarters, Rawalpindi ID: PRO, NDMA Deputy Director ICT, NDMA

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Government of Pakistan Ministry of Aviation (Aviation Division) Pakistan Meteorological Department Research and Development Division Islamabad, Pakistan

GLOF ALERT

GLOF/Met-3(7)/2020/ 2223

Dated: 20 May 2024 Issue Time: 4:00 PM

The daytime temperatures in Gilgit-Baltistan (GB) and Khyber Pakhtunkhwa (KPK) are expected to remain 04-06 °C higher than normal from May 21 to 27 with chances of gusty wind/thunderstorm is expected at isolated places. This atmospheric condition potentially increasing the likelihood of triggering a Glacial Lake Outburst Floods (GLOF) event or flash floods in the vulnerable snow-covered and glaciated areas of GB and Chitral.

 The district administration, relevant local organizations, and local communities are advised to remain vigilant and observe precautionary measures to avoid any untoward situations.

(DR. MUHAMMAD ATIF WAZIR) Deputy Director, For Director General, PMD

Distribution:-

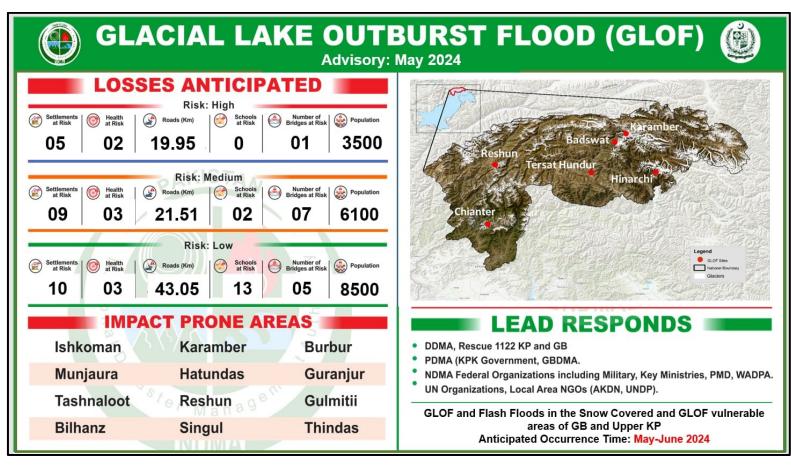
- 1. Chairman, National Disaster Management Authority (NDMA).
- 2. Director General, Gilgit-Baltistan Disaster Management Authority (GBDMA).
- 3. Director General, Provincial Disaster Management Authority, Khyber Pakhtunkhwa
- 4. National Project Manager, Pakistan GLOF-II Project, 6th Floor, Serena Hotel, Islamabad.
- 5. Project Coordinator, Pakistan GLOF-II, Gilgit-Baltistan.
- 6. Chairman, Rescue 1122, Gilgit
- 7. SPS to Director General, PMD
- 8. Director, RMC, Gilgit/ Peshawar. (To please dissemination further at District level)
- 9. Director, National Weather Forecasting Center (NWFC), PMD HQs
- 10. Web Master.

<u>Annex-A</u>

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<u>Annex-B</u>

NDMA GLOF RISK PROJECTION MAP



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Annex-C

SUPARCO SATELLITE IMAGERY ANALYSIS - BADSWAT GLOF SITE

