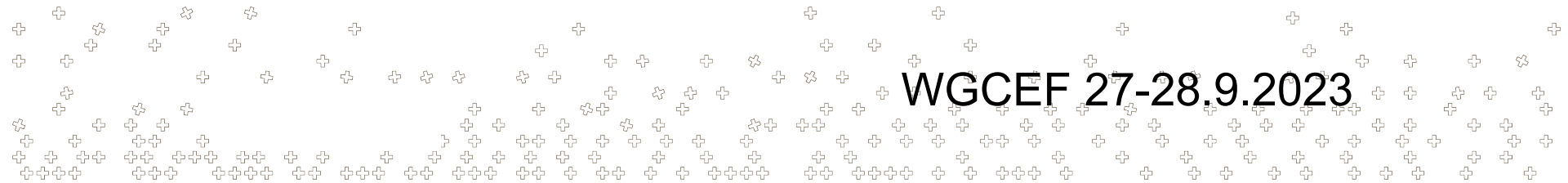




News at MeteoSwiss

WGCEF 27-28.9.2023





Autometar

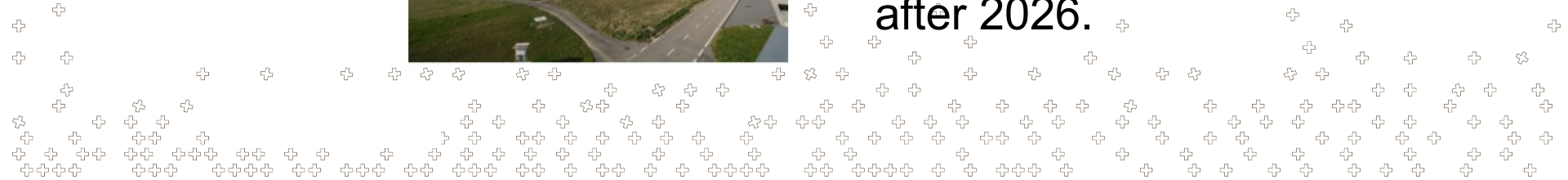
MeteoSchweiz Private - Genève Cointrin 1 - MCH private  22.03.2023 15:28 UTC Altitude: 421 m.



MeteoSchweiz Private - Genève Cointrin 2 - MCH private  22.03.2023 15:28 UTC Altitude: 421 m.

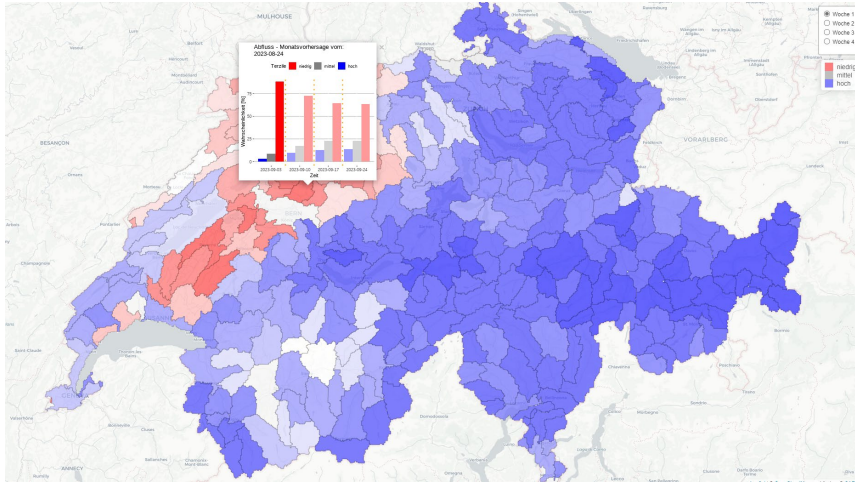


- AutoMetar LSGG 24/24 from June 2024 (already in use during the night)
- TRENDS, lightning and wind warnings issue from the office In WMO's building
- Future of the SYNOP : not decided yet.
- Autometar LSZH 24/24 in 2026
- Autometar in regional airports after 2026.





www.drought.ch



Monthly forecast

Situation actuelle et prévisions

Situation actuelle



Actual situation

Project between MeteoSwiss and BAFU (hydrological institute)

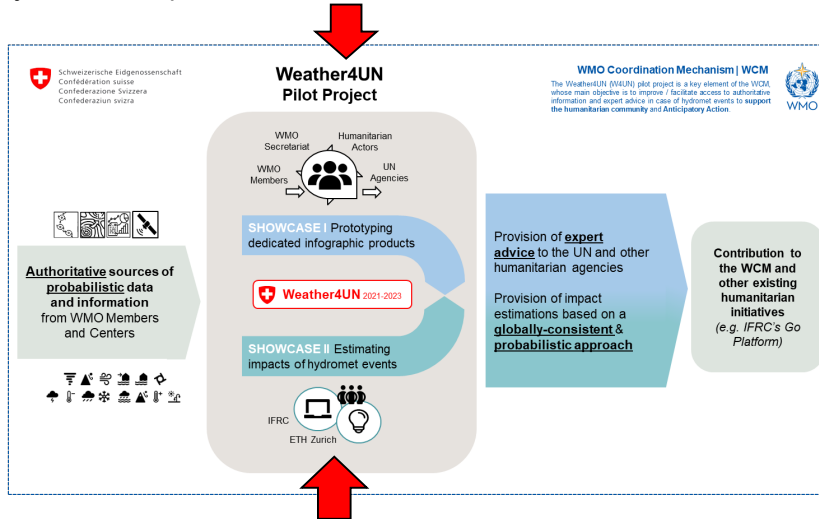
Measurement and forecast





Weather 4 UN

Prototype of a Global HydroMet Scanning Capability provide hydromet information and expert advice to the Humanitarian Actors (HA). Data from different sources are collected, analyzed and compiled, providing added-value advice. This part of the project is developed in close collaboration with the WMO Secretariat in Geneva.

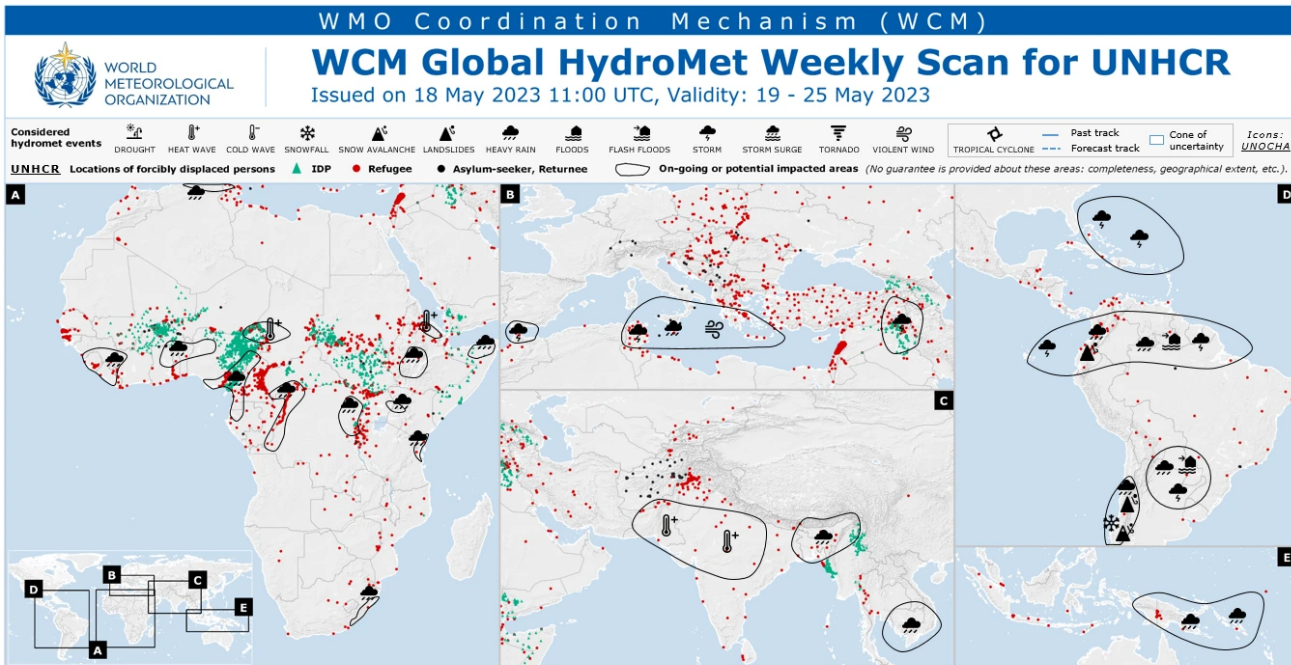


Development of a tool to **estimate the combined risks and impacts of forecasted natural hazards**.

Based on a globally consistent probabilistic risk model (**CLIMADA**) coupled with probabilistic weather forecasts from WMO Member countries and territories, the estimation of multi-hazard impacts will enable humanitarian actors to plan and anticipate the best responses to protect the most vulnerable populations.



Weather4Un (pilot project until end of 2024)



Severe weather forecast for region «B» issued every week by Geneva's weather centre valid for a week.

HYDROMETEOROLOGICAL SIGNIFICANT EVENTS: ON-GOING (with new potential impact) & POTENTIALLY UPCOMING

- A** Possibility of accumulated heavy rainfall of more than 100mm is very likely during the next 7 days (19 to 25 May). Flash flood, riverine flood, landslides, strong gusts may occur. Moderate to severe heat wave conditions are likely to persist for 3 days consecutive ($\geq 45^{\circ}\text{C}$) or longer with varied severity. Increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing outside heavy work.
- B** Heavy rainfall and strong winds are expected over coastal **Algeria, Tunisia, Malta and Greece** between 19 and 21 May. Thunderstorms with heavy rainfall are expected around the border between **Türkiye, Iraq and the Islamic Republic of Iran** on 20 May. Rainfall is also expected in parts of **Ukraine** after 21 May (still high uncertainty). ^[A,B]

- C** Hot and dry weather expected in southern **Pakistan** on 20-21 May ^[C], western and central **India** on 20-25 May ^[A,B]. Heavy rains may affect **Bhutan, eastern India, Bangladesh, and northwestern Myanmar** on 19-21 May ^[A,B]. Isolated showers may affect southern **Thailand, southern Lao PDR, Cambodia, and southern Viet Nam** on 23-25 May ^[B,C].

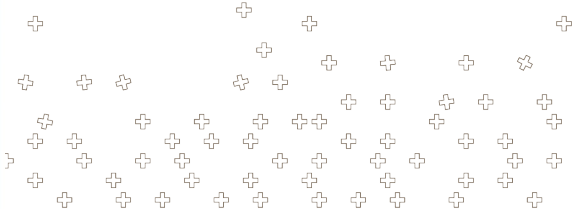
- D** In **Ecuador and Colombia** very intense rain and high risk of flooding/landslides. In **Venezuela, Guyana, Suriname, French Guiana, northern Brazil** thunderstorms/rain and flash floods are likely. In **Chile** heavy rain, mountains snow and high risk of flooding/landslides. In **Argentina, Paraguay and southern Brazil** thunderstorms/rain and flashfloods/flooding are likely on 20-22 May. ^[A,B,C]

- E** Isolated showers may affect eastern **Indonesia, Papua New Guinea and Solomon Islands** on 19-24 May. ^[A,B]

Sources: [BMHS](#), [WMO](#), [UNHCR](#), [FRSMC/TCWC](#), [ECMWF](#), [NaturalEarth](#)

With contribution from [ACMAD](#), [BMKG](#), [DWD](#), [MeteoSwiss](#)

Disclaimer: This product highlights hydrometeorological events which may be of interest to UNHCR. WMO makes no warranty in respect of the correctness or completeness of this information, nor does this information represent the official view of WMO. This information does not replace the advice and guidance provided by the official meteorological services for these regions. For official national guidance please refer to the national hydromet and disaster management agencies. The designations employed in this map are in conformity with United Nations practice. The presentation of material therein does not imply the expression of any opinion whatsoever on the part of WMO concerning the legal status of any country, area or territory or of its authorities, or concerning the delimitation of its borders. The depiction and use of boundaries, geographic names and related data are not warranted to be error free nor do they necessarily imply official endorsement or acceptance by WMO.





Severe events



24.7 : Storm in La Chaux-de-Fonds (Jura)
217 km/h recorded, heavy damages.



Heat wave mid-august record of 0°C height at
5298 m on the 21 august, the snow limit dropped
to 1800 m on the 28th.



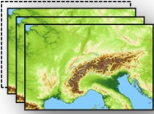
Flooding in Ticino, 358 mm in Biasca
between 26 and 27 august.



COSMO to ICON

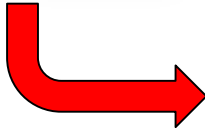
COSMO-1E

33 hour forecasts, 8x per day
1.1 km grid size
11 ensemble members



COSMO-2E

5 day forecasts, 4x per day
2.2 km grid size
21 ensemble members

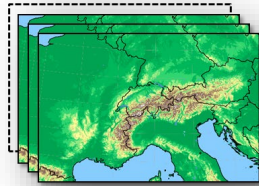


New Models:

ICON-CH1-EPS and ICON-CH2-EPS

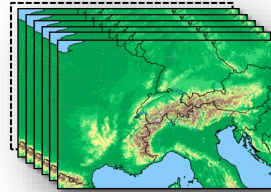
ICON-CH1-EPS

33 hour forecasts, 8x per day
1.1 km grid size
11 ensemble members



ICON-CH2-EPS

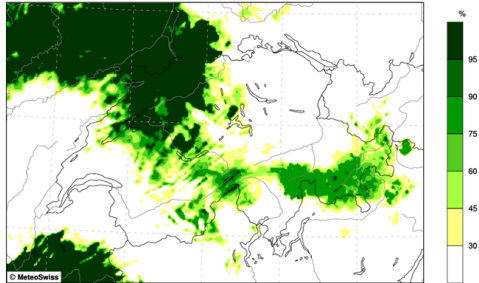
5 day forecasts, 4x per day
2.2 km grid size
21 ensemble members



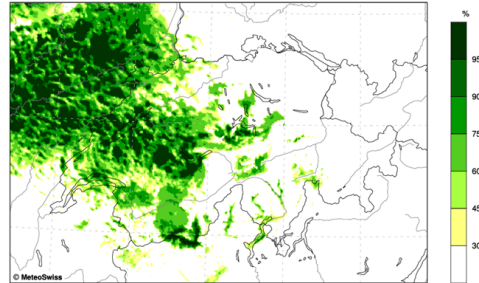
- pre operational: 2.10.2023
- operational: 9.4.2024

COSMO-1E

COSMO-1E ENSEMBLE_FORECAST
Medium Cloud Cover (p=400-800hPa or z=8-2km) (CTRL)
Tue 12 Sep 2023 06UTC
11.09.2023 00UTC +30h



ICON-CH1-EPS ENSEMBLE_FORECAST
Medium Cloud Cover (p=400-800hPa or z=8-2km) (CTRL)
Tue 12 Sep 2023 04UTC
11.09.2023 00UTC +28h



ICON-CH1-EPS





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PUBLICATIONS IDENTIFIÉ(E)

