



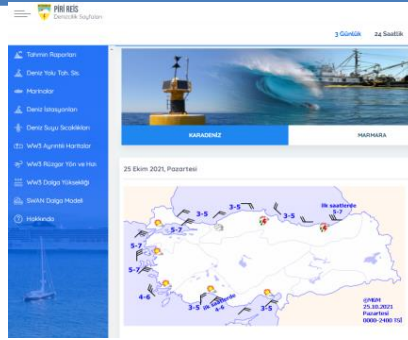
Informal Conference of South-East European Directors of NMHSs

ICSEED-19

4 November 2021, Online

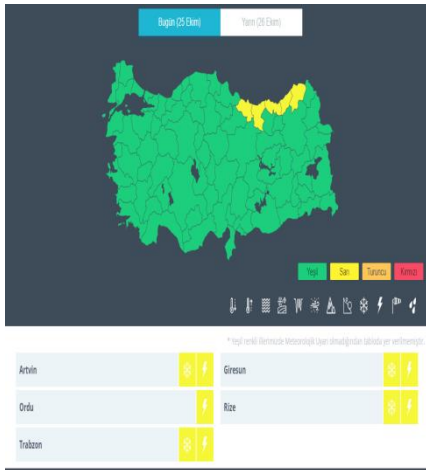
Meteorological Early Warnings

1. Color codes started to be applied in the MeteoUYARI application.
2. Pollen Forecast and Warnings project initiated.
3. The protocols were signed with unions of agricultural producers on the early warnings and meteorological support.



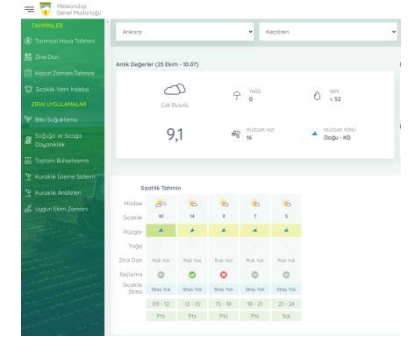
Forecasts

1. 3-day Dust Transportation Forecasts for the Middle East, Central Asia, and North Africa started to be published.
2. "Piri Reis" maritime forecasts website was developed.
3. WRD (WMO Radar Database) was renewed in 2019.
4. Integration and calibration studies of the wind model, which offers very high resolution up to 30 meters, were completed in 2020 and integrated into The General Directorate of Forestry systems.



Observation Systems

1. Our 1 staff participated in the 4th Antarctic science expedition for AWOS, which was established on the Antarctic Horseshoe Island.
2. Kandilli Observatory Meteorology Station was recognized by WMO as Turkey's first Centennial Station.
3. "Determination of Dust Transportation Routes and Natural Dust Additive in Southern Regions of Turkey" project was started.



Climate and Agricultural Meteorology Activities

1. Department of Climate and Agricultural Meteorology were established in 2020.
2. The "Agricultural Weather Forecast" website and the "Agricultural Weather Forecast Mobile Application" were put into service.
3. The Agricultural Frost Warning System (ZDUS) was expanded and offered to the service of our farmers in all provinces.
4. Special climate indexes for agriculture, water, health, tourism, and energy sectors were produced throughout Turkey by using the data for the period 1960-2020 by the Department of Climate and Agricultural Meteorology, which was established in 2020.

Quality Management System

1. Quality Management System certificate of TSMS, which was renewed for the fourth time on 14 May 2019, will remain valid until 2022.
2. TSMS Calibration Center is accredited by the Turkish Accreditation Agency (TÜRKAK).
3. Within the scope of the WMO twinning project; The Azerbaijan Hydrometeorology Service is supported by TSMS on the Quality Management System in Climate Services.



Innovation

1. Artificial Intelligence and Information Security Division was established.
2. Meteorological data support will be provided for Turkey's Automobile Joint Venture Group (TOGG).
3. The book named "Meteorology and its Sectoral Reflections" have been published.
4. The trademark registration for the Voice of Meteorology Radio was received.
5. With the scope of Country Support Initiative, a Peer Review Report was prepared for the Afghanistan Meteorology Department in accordance with Country Hydromet Diagnostics.

Hosting International Events

1. 4-8 November 2019 - Flash Flood Guidance System (FFGS) Global Workshop
2. 9 December 2020 - Amateur radio connection for students with the International Space Agency Astronaut
3. 19 February 2021 - 1st Virtual Forum of Turkic World on Meteorology



Staff

1. 121 personnel have started to work since 2019, and another 100 personnel have been appointed in 2021.



Challenges

- Flash floods and forest fires that increase in frequency and severity due to climate change
- Due to the pandemic, RTC-Turkey practical trainings could not be conducted face-to-face
- Decreased aviation incomes due to the pandemic

Future Plans

- Extension of the Weather Forecast Period
- Installation of Low Level Wind Shear and Warning System for Istanbul Airport
- Establishment of the Calibration Laboratory for the snow depth sensor
- Establishment of a drought forecasting system
- Application for Piri Reis Maritime forecasts



Thank you!

