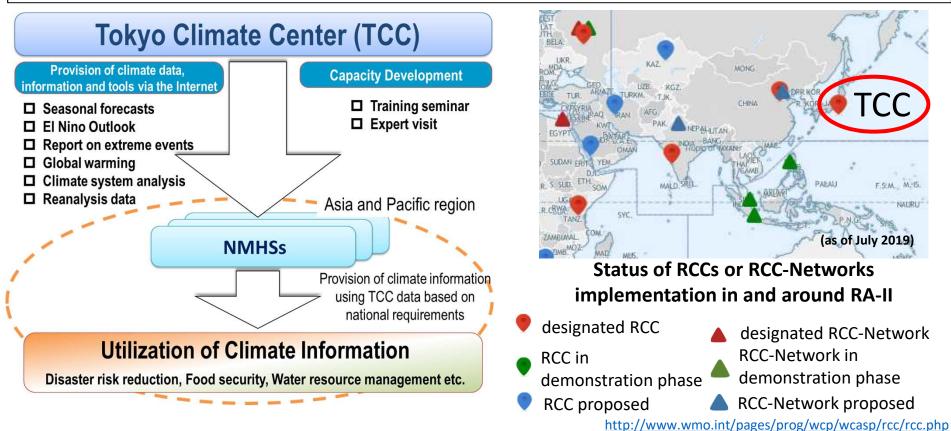


Recent activities of the Tokyo Climate Center (TCC)

Kazuaki TSUJI Tokyo Climate Center Japan Meteorological Agency

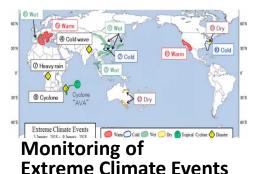
Tokyo Climate Center (TCC)

- TCC has served as a WMO Regional Climate Center (RCC) in Regional Association II since 2009.
- TCC supports National Meteorological and Hydrological Services (NMHSs) through data/information provision and capacity development activities.

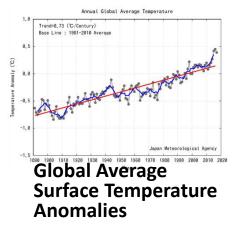


Climate monitoring and forecast products

• A variety of TCC's monitoring and forecast products

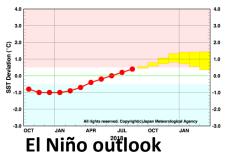


Climate database (ClimatView)



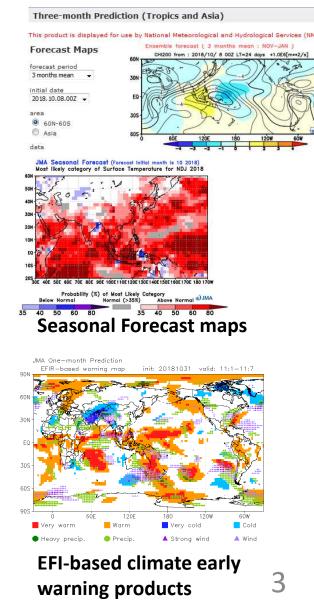


Interactive Tool for Analysis of the Climate System





Long-term reanalysis data



Capacity Development Activities

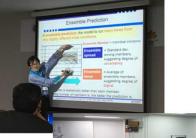
Annual Training Seminars

 TCC holds annual training seminars on the application of its climate monitoring and prediction products.

Expert visits

 TCC arranges expert visits to NMHSs to support capacity building for climate services and facilitate the effective transfer of technical expertise on TCC products and tools.









TCC Training Seminar on Onemonth Forecast (November 2018)



Visit to DMH of Myanmar (June 2014)

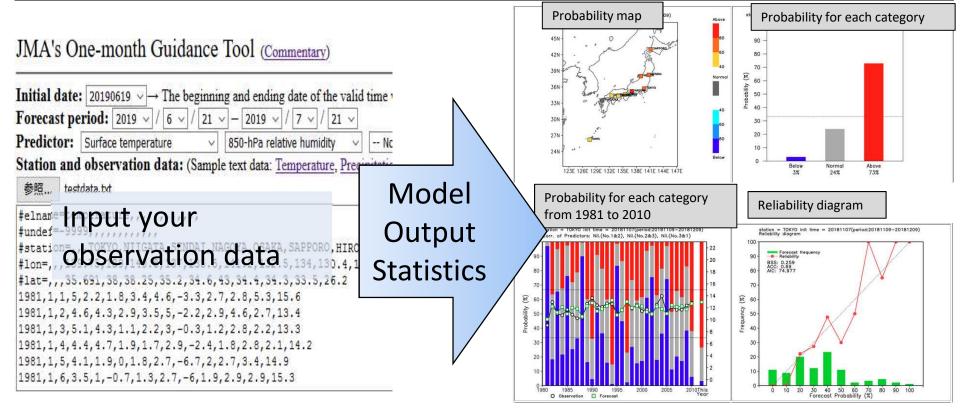
Hosting NMHSs staff



Visit by BMKG climate experts (July 2019)

Interactive One-month Guidance Tool

 TCC has launched a new interactive tool enabling the generation of statistical guidance for station points in support of operational seasonal forecasts covering periods of a month or less.

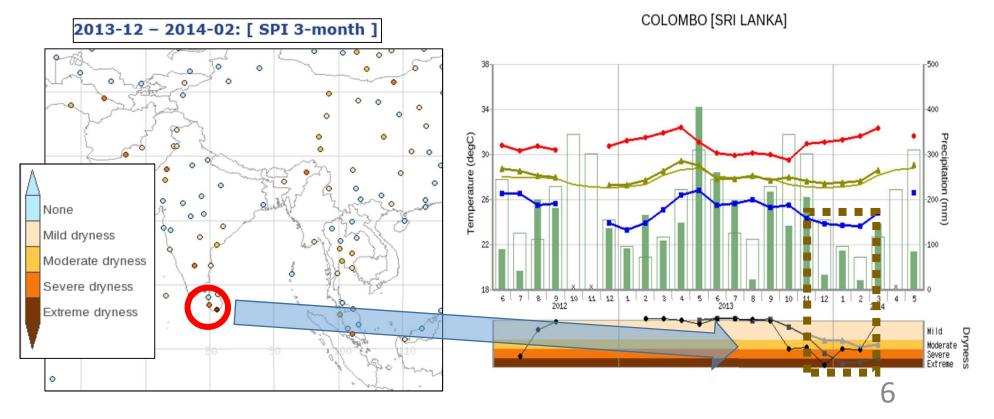


<u>https://extreme.kishou.go.jp/cgi-bin/simple_guidance/index.cgi</u> (PW protected) <u>https://extreme.kishou.go.jp/tool/simple_guidance/help/</u> (commentary)

Standardized Precipitation Index (SPI) installed in ClimatView

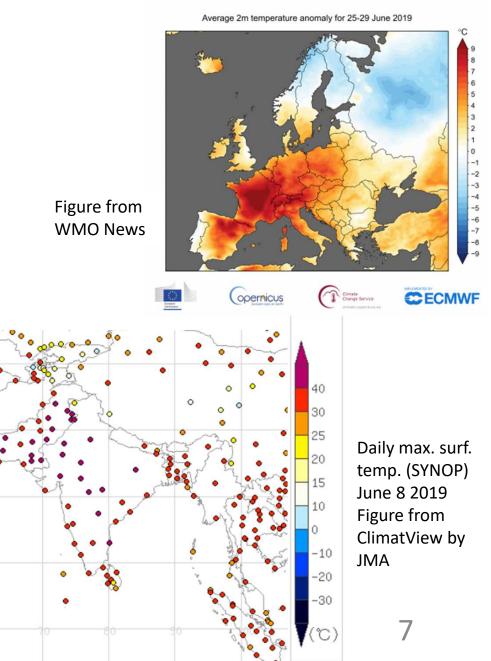
 TCC provides worldwide drought monitoring information (SPI) via its interactive online ClimatView tool since March 2019 to assist NMHSs in their monitoring of current and historical rainfall deficits.

https://ds.data.jma.go.jp/tcc/tcc/products/climate/climatview/frame.php



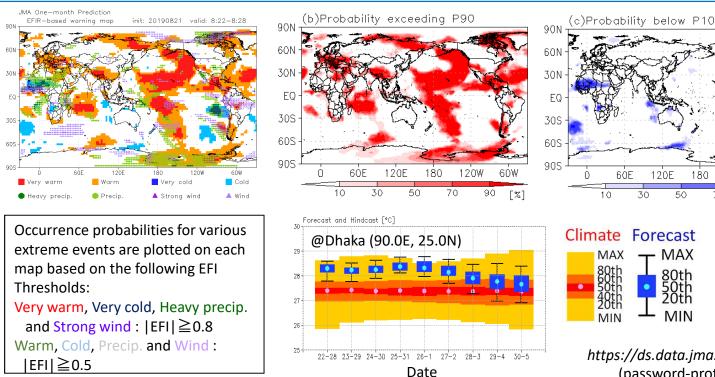
Heatwaves in this summer

- Heatwaves hit South Asia and Europe this year
- Early warning is a key to save those who are vulnerable; children, elderly and laborers outside
- In fact, death toll in France is "10 times fewer deaths than the 2003 heatwave" with the authorities' preventive measures, said health minister (France Info radio)

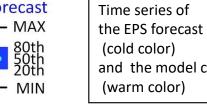


Forecast products in support of Early Warnings for extreme weather events

• To support the Asia-Pacific NMHSs in the provision of early warnings for extreme events, TCC provides a set of extreme weather warning products on the basis of Extreme Forecast Index (EFI) using JMA's operational Global Ensemble Prediction System.



Probability above/below the 90th/10th percentile of the model climatology



120W

70

60W

90 [%]

(cold color) and the model climate (warm color)

https://ds.data.jma.go.jp/tcc/tcc/qpv/EFI/index.php (password-protected; updated every Thursday)

Two-week Temperature Forecast

 Improvements of Numerical Weather Prediction (NWP) technology enabled more detailed temperature forecast for two week ahead

