**WMO Survey on existing capabilities to produce National Climate Monitoring Products**

The purpose of this questionnaire is to understand the current capabilities and development requirements of each WMO-affiliated National Hydrological or Meteorological Service to produce six national climate monitoring products (NCMPs) at the national level, as recommended by the WMO Expert Team on National Climate Monitoring Products (ET-NCMP). The NCMPs will enable the generation of consistent and comparable analyses for various national and regional assessments, including the annual *WMO Statement on the Status of the Climate*. The members of the ET-NCMP need this information to guide the specifications that they are currently developing, design appropriate user-friendly computer software for producing the NCMPs and to identify areas where they can focus on capacity building at a national level.

The current recommended NCMPs are:

1. Monthly area-average mean temperature anomaly time series (°C)
2. Monthly area-average total precipitation anomaly time series (% of average)
3. Monthly area-average standardized precipitation index (no units)
4. Monthly area-average percent of days with daily maximum temperature above the 90th percentile (%)
5. Monthly area-average percent of days with daily minimum temperature below the 10th percentile (%)
6. Extremes of temperature and precipitation.

We are kindly inviting you to complete this questionnaire and send it to [peer.hechler@wmo.int](mailto:peer.hechler@wmo.int) by *day month year*. Or by fax to +49xxxxxxxxxxx or by mail to [address]

For more information on Commission of Climatology OPACE 2 Expert Team on National Climate Monitoring Products, please visit <http://www.metoffice.gov.uk/hadobs/opace2_tt_ncmp/>.

We greatly appreciate your time. Thank you.

**Contact information:**

Name:

Position:

Institution:

Address:

Country:

Email address:

**Questions**

Please respond to all questions. Enter ‘x’ if front of your response and/or type your response directly in the document. You can also print the document, enter your responses by hand and send us the scanned document.

**1. Temperature:**

Do you use daily max and min temperature for climate monitoring? Yes 🞎 No 🞎

How many stations do you use for temperature monitoring for climate approximately? \_\_\_\_

Do you QC daily temperature for climate monitoring? Yes 🞎 No 🞎

Do you homogenise temperature data for climate monitoring? Yes 🞎 No 🞎

Do you calculate monthly mean temperature anomalies? Yes 🞎 No 🞎

What base period do you use to calculate temperature anomalies? \_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_

Do you produce a map of the monthly temperature anomalies? Yes 🞎 No 🞎

Do you calculate area-average of the monthly mean temperatures?

How often is the area average updated? monthly 🞎 seasonal 🞎 annual 🞎

Is there an example of this product available on the internet? Yes 🞎 No 🞎

What is the URL or web address?

**2. Precipitation:**

Do you use daily precipitation for climate monitoring? Yes 🞎 No 🞎

How many stations do you use for precipitation monitoring for climate approximately? \_\_\_\_

Do you QC daily precipitation for climate monitoring? Yes 🞎 No 🞎

Do you homogenise precipitation data for climate monitoring? Yes 🞎 No 🞎

Do you calculate monthly precipitation anomalies? Yes 🞎 No 🞎

What base period do you use to calculate precipitation anomalies? \_\_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_\_

Do you produce a map of the monthly precipitation anomalies? Yes 🞎 No 🞎

Do you calculate area-averages of the monthly precipitation anomalies?

How often is the area average updated? monthly 🞎 seasonal 🞎 annual 🞎

Is there an example of this product available on the internet? Yes 🞎 No 🞎

What is the URL or web address?

Do you calculate a monthly standardised precipitation index (SPI,see above)? Yes 🞎 No 🞎

Do you produce a map of the monthly SPI? Yes 🞎 No 🞎

Do you calculate area-averages of the monthly SPI?

How often is the area average updated? monthly 🞎 seasonal 🞎 annual 🞎

Is there an example of this product available on the internet? Yes 🞎 No 🞎

What is the URL or web address?

3. Do you have any comments and suggestions regarding the NCMPs and or this survey?

Thank you for your time!