**Questionnaire for the**

**Sharing of Information on Climate Services**

I. Overall climate information services

1-1 What kind of climate information (data and products) does your NMHS provide operationally to the general public and/or specific users? (Please check all that apply.)

[ ]  Long-range forecasts

[ ]  Climate monitoring

[ ]  Analysis and assessment based on historical data

[ ]  Historical climate data

[ ]  El Niño monitoring and outlooks

[ ]  Climate change projections

[ ]  Long-term trends

[ ]  Others (Please specify.)

1-2 Does your NMHS operate a portal website providing climate data/products? If so, please provide the URL.

[ ]  Yes URL:

[ ]  No

II. Long-range forecasts

2-1 Does your NMHS provide long-range forecast services? If so, please check all that apply, provide URLs and specify the language(s) used for the services.

*(Extended-range weather forecasts (10 – 30 days) and long-range forecasts (30 days – 2 years) (both defined by WMO) can be checked here. Relevant forecasts, such as those for the onset/end of the rainy/dry season, drought advisories/warnings and agrometeorological forecasts are also considered services for the purposes of this questionnaire.)*

[ ]  Yes

[ ]  Monthly predictions – 2 to 6 weeks

 URL:

[ ]  Sub-seasonal predictions – 6 weeks to 2 months

 URL:

[ ]  Seasonal predictions – 3 to 6 months

 URL:

[ ]  Annual predictions – 6 to 12 months

 URL:

[ ]  Interannual predictions – a year to a decade

 URL:

[ ]  El Niño forecasts

 URL:

[ ]  Others (Please specify and provide any relevant URLs.)

[ ]  No (Please go to question 2-4.)

2-2 Briefly describe the methods used by your NMHS to generate long-range forecast products. Please provide URLs and indicate the language(s) used if relevant information is provided online.

2-3 Does your NMHS use products provided by other NMHSs or meteorological institutes for long-range forecasts? If so, please list them below.

[ ]  Yes

[ ]  No

For those answering No to question 2.1:

2-4 Do you plan to provide long-range forecasting services in the future? If so, please briefly describe the plan.

[ ]  Yes

[ ]  No

III. Climate monitoring

3-1 Does your NMHS provide information on climate monitoring (e.g., diagnostics, including analysis of climate variability and extremes)? If so, please check all that apply, provide any relevant URLs and indicate the language(s) used for the selected services. Regular climate monitoring reports can be listed here.

[ ]  Yes

[ ]  Monitoring of climate extremes (including drought monitoring and climate watch)

 URL:

[ ]  Climate system monitoring

URL:

[ ]  El Niño monitoring

URL:

[ ]  Climate change monitoring

URL:

[ ]  Publication of climate monitoring reports (bulletins)

URL:

[ ]  Others (Please specify.)

[ ]  No

IV. Climate data services

4-1 Does your NMHS provide historical climate data online? If so, please list the data and the URLs/language(s) used.

[ ]  Yes



[ ]  No

4-2 Has your NMHS digitized its historical climate data? If not, are there any plans for digitization?

[ ]  Yes

[ ]  No (digitization planned)

 [ ]  No

4-3 Does your NMHS provide climate data online with limited/unlimited access? Please check all that apply.

[ ]  All climate data on the website are available to all users with unlimited access.

[ ]  Some climate data are accessible to registered users under password protection free of charge. (Please give examples.)

[ ]  Some climate data are accessible to registered users under password protection for a fee. (Please give examples.)

[ ]  No climate data are provided online.

V. Regional cooperation for improvement of climate information services

5-1 The Regional Climate Outlook Forum (RCOF) provides a platform for the development of consensus long-term forecasts, exchanges of technical information among NMHSs, and discussions among climate information providers and users. Does your NMHS participate in RCOF sessions? If so, please indicate which ones.

The following URL provides more information on RCOF sessions.

https://public.wmo.int/en/our-mandate/climate/regional-climate-outlook-products

[ ]  Yes RCOF(s):

[ ]  No

5-2 For those answering Yes to question 5-1:

Does your NMHS provide domestic users with relevant information based on consensus forecasts made at RCOF sessions? If so, please indicate how such information is provided.

[ ]  Yes

[ ]  No

VI. Climate information users and information utilization

6-1 Is there a framework for cooperation with climate information user sectors? If so, please check all that apply.

[ ]  Yes

[ ]  Agriculture [ ]  Water management

[ ]  Disaster Risk Reduction [ ]  Energy resources

[ ]  Health and welfare [ ]  Transportation

[ ]  Others

[ ]  No

6-2 Do you know how user sectors utilize your climate information? If so, please specify.

[ ]  Yes [ ]  No

For those answering Yes, please answer the following questions:

6-2-1 In which sectors do users operate? Please check all that apply.

[ ]  Agriculture [ ]  Water management

[ ]  Disaster Risk Reduction [ ]  Energy resources

[ ]  Health and welfare [ ]  Transportation

[ ]  Others



6-2-2 What kind of climate information is used? Please check all that apply.

[ ]  Long-range forecasts [ ]  Climate monitoring

[ ]  Analysis and assessment based on historical data

[ ]  Historical climate data [ ]  El Niño monitoring and outlooks

[ ]  Climate change projections [ ]  Long-term trends

[ ]  Others (Please specify.)

6-2-3 If known, indicate the triggers for climate information utilization. Please check all that apply.

[ ]  RCOF [ ]  National Climate Outlook Forum (NCOF)

[ ]  National Climate Forum (NCF)

[ ]  Meetings for discussion with information users

[ ]  Explanatory meetings for information users

[ ]  User workshops

[ ]  Publicity and educational activities [ ]  Collaborative research

[ ]  Others (Please specify.)

6-3 How do you provide climate information? (Please check all that apply.)

[ ]  Online (website)

[ ]  Online (SNS)

[ ]  E-mail

[ ]  Telephone and/or fax

[ ]  TV and/or radio

[ ]  NCOF/NCF/conferences

[ ]  Others

6-4 Are there any plans to provide user sectors with new types of climate information? If so, please specify.

[ ]  Yes

[ ]  No

6-5 What efforts or activities are engaged in to enhance the utilization of information? (Please check all that apply and specify.)

 [ ]  Meetings for discussions with information users

 (Example: JMA meetings with public weather companies focusing on the utilization of seasonal forecasts)

[ ]  Explanatory meetings for information users

 (Example: JMA explanatory meetings with specialists/advisors of local agricultural cooperatives)



 [ ]  User workshops

 (Example: JMA workshops with private-sector operators to share good practices of climate information utilization in retail sales)

[ ]  Publicity and educational activities

 (Example: JMA issuance of leaflets to raise awareness of climate risk management)

 [ ]  Collaborative research

 (Example: JMA collaboration with the National Agriculture and Food Research Organization to develop advanced climate information for rice cropping)

[ ]  Others (Please specify.)

 [ ]  NoneVII. Case studies/best practices in the application of climate information

7-1 Please give examples (best practices) of your climate information being applied effectively in decision-making. Such examples can be found in the Climate ExChange publication at https://www.gfcs-climate.org/publication/climate\_exchange. Please specify any webpages and/or publications relating to your best practices.

=== Contact information ===

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Thank you very much for your cooperation.