|  |  |  |  |
| --- | --- | --- | --- |
| Annex 1  **Strategy plan 2021 -2023** | | | |
| **WMO Priority Areas Courses** | Give us the no. of priorities \*( Look below) | The no. of participants in this course | Date you expected for next 3 years |
| **Disaster Risk Reduction** |  |  |  |
| Hazard and Risk Assessment |  |  |  |
| Disaster Risk Governance and Management |  |  |  |
| Disaster Prevention and Mitigation/Disaster Resilient Nations |  |  |  |
| Multi-Hazard Early Forecast and Warning Services |  |  |  |
| Impact-based Weather Forecasting |  |  |  |
| Nowcasting |  |  |  |
| Tropical Cyclone Forecasting |  |  |  |
| Marine weather forecasting, services, and competency |  |  |  |
| Storm surge |  |  |  |
| Climate Change and Disaster Risk |  |  |  |
| Use and Interpretation of ERA products |  |  |  |
| Severe weather forecasting |  |  |  |
| Implementing Limited-Area NWP |  |  |  |
| Delivery of warning services to the last mile including dissemination and communication capabilities |  |  |  |
| Quality Management Frameworks |  |  |  |
| Integrated hydrometeorology, climate and environment services for sustainable cities |  |  |  |
| Sand and dust storms monitoring and prediction |  |  |  |
| Weather and climate forecast verification |  |  |  |
| Space Weather |  |  |  |
| Other courses ( Please Specify) |  |  |  |
| **Global Framework for Climate Services** |  |  |  |
| Climate Change Impacts on (Water, Health, Urban Centers, Transportation, Coastal Areas, Forestry, Agriculture, Ecosystems, Energy) |  |  |  |
| Climate Services for (Water, Health, Urban Centers, Transportation, Coastal Areas, Forestry, Agriculture, Ecosystems, Energy) |  |  |  |
| Creating and Managing Climate Data Sets |  |  |  |
| Climate Data Rescue |  |  |  |
| Climate Data Management (homogenization, CDMSs, Data Rescue, Quality Control) |  |  |  |
| Deriving Products from Climate Data (for specific user sectors) |  |  |  |
| Using Seasonal Climate Forecasts |  |  |  |
| Seasonal Climate Prediction (Sub seasonal to seasonal prediction, regional modelling, climate extremes) |  |  |  |
| Long Range Prediction (including seasonal, annual, decadal climate predictions) |  |  |  |
| Interpretation of relevant Long Range Forecasts from Global Producing Centers |  |  |  |
| Developing National Climate Services |  |  |  |
| Climate model development |  |  |  |
| Verification of Long Range Predictions |  |  |  |
| Assessment of potential impacts of Long Range Predictions to sectors |  |  |  |
| Climate Diagnostics including analysis of climate variability and extremes |  |  |  |
| User Interface Platforms |  |  |  |
| Climate Monitoring Products |  |  |  |
| Climate service delivery and communication of climate information |  |  |  |
| Developing National Frameworks for Climate Services |  |  |  |
| Training for farmers on the use of weather and climate information. Roving Seminars and Climate Field Schools |  |  |  |
| Training for trainers on the use of weather and climate information |  |  |  |
| Use of crop models and numerical models including soil moisture and water balance in crop monitoring and yield estimations |  |  |  |
| Use of satellite data and products on drought monitoring and agricultural meteorology |  |  |  |
| Stream gauging |  |  |  |
| Groundwater monitoring and assessment techniques |  |  |  |
| Other courses ( Please Specify) |  |  |  |
|  |  |  |  |
| WMO Integrated Global Observing System (WIGOS) |  |  |  |
| Surface Observations |  |  |  |
| Upper Air Observations |  |  |  |
| Instrument Calibration and Maintenance (land surface stations) |  |  |  |
| Planning Surface Observing Networks |  |  |  |
| Managing Surface Observing Networks |  |  |  |
| OSCAR Surface Software |  |  |  |
| Applications of Satellite Data in Weather Forecasts and Related Services |  |  |  |
| Other observations areas (Marine, AMDAR, Cryosphere, etc.) |  |  |  |
| Radar Observing Networks, Calibration, and Maintenance |  |  |  |
| Using Radar Data in Weather Forecasting |  |  |  |
| Automated Weather Station (AWS) Networks |  |  |  |
| Hydrological Data Sharing |  |  |  |
| GAW Observations, Analysis, Products and Services |  |  |  |
| WIGOS Data Quality Management System |  |  |  |
| WIS Competencies |  |  |  |
| Operational ICT Services for Meteorological Operations |  |  |  |
| Other courses ( Please Specify) |  |  |  |
| Aeronautical Meteorological Services |  |  |  |
| Forecasting Aviation Hazards (Icing, Low Cloud and Visibility, Thunderstorms, Turbulence, Volcanic Ash, Wind Shear) |  |  |  |
| Quality Management Systems for Aeronautical Meteorological Services |  |  |  |
| Producing Meteorological Products for Aviation |  |  |  |
| Communication with Aviation Customers |  |  |  |
| Competency Assessment of Meteorological Personnel |  |  |  |
| Cost Recovery of Aeronautical Meteorological Services |  |  |  |
| Other courses ( Please Specify) |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Capacity Development |  |  |  |
| BIP-M programmes |  |  |  |
| BIP-MT programmes |  |  |  |
| BIP-H programmes |  |  |  |
| BIP-HT programmes |  |  |  |
| BIP- Marin forecaster |  |  |  |
| BIP- Marin technician |  |  |  |
| BIP- CS ( Climate services) |  |  |  |
| Management Training |  |  |  |
| Project Management |  |  |  |
| Resource Mobilization |  |  |  |
| Training for women in science |  |  |  |
| Training for early-career scientists |  |  |  |
|  |  |  |  |

**\* Notes that no. of priorities takes no. from 1 to 5 as follows**

**5= means priority no. 1 (strong needed )**

**4= means priority no. 2**

**3= means priority no. 3**

**2= means priority no. 4**

**1= not need no. 5**

**You will fill the space in front every program with no. from 5 to 1.**

**In case you chose 5, you prefer to collect the training needs from your countries.**

**In case you need other courses that it is not exist, you should put in this table.**