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| **Timescale** | **Example climate information products** | **Example health-decision applications** | **Status of development of climate products** |
| HISTORIC AND CONTEMPORARY PAST RECORD OF CLIMATE OBSERVATIONS | Historic time series data, summary statistics and reanalysis products | Estimating epidemiological trend and informing regression analysis to understand associations of climate and health  Forecasting and mapping disease risks  Identifying disaster risk based on extreme event return period | OPERATIONAL |
| WEATHER FORECASTS (HOURLY, DAILY, WEEKLY) | Real-time monitoring of daily weather: temperature, precipitation, humidity, etc.  8-14 day probabilistic outlooks  Extreme weather prediction  Extended range forecasts from 10-30 days | Outputting public health advice  Triggering early warning systems to initiate emergency response plans (staff deployment, delivery of supplies and public protection) | OPERATIONAL  OPERATIONAL  OPERATIONAL  EXPERIMENTAL |
| SHORT-TERM CLIMATE FORECASTS  (MONTHLY TO SEASONAL) | Long-range forecasts of average: maximum and minimum temperature and precipitation conditions (e.g. seasonal forecasts)  Tercile forecasts (above normal, normal, below normal) probabilistic prediction of rainfall and temperature)  Seasonal forecasts cyclones, floods, dust storms, wind storms, extreme temperature, fire, drought and pollution | Informing short-term operational decisions on supplies procurement, health workforce deployment, health education, disease surveillance strengthening and outbreak prevention | OPERATIONAL  OPERATIONAL  EXPERIMENTAL |
| MID-TERM CLIMATE FORECASTS (ANNUAL TO INTER-ANNUAL) | Annual to inter-annual forecasts (several years ahead) describing large scale state of the climate  Status of El Nino Southern Oscillation (ENSO) conditions  Dynamic and statistics climate model outputs | Supporting 1-5 year policy decisions for disease control, health research, health services and health workforce planning | EXPERIMENTAL  EXPERIMENTAL  EXPERIMENTAL |
| LONG-TERM CLIMATE PROJECTIONS (DECADES TO CENTURIES) | Global circulation model outputs such as decadal to multi-decadal forecasts of surface temperature, precipitation, seas surface temperature, etc. | Planning long-term health infrastructure investments and research efforts  Projecting demographic and population trends  Anticipating changes in disease trends and risk of epidemic dynamics on a regional scale  Estimating impacts on key health determinants (water resources, heat stress, crop failure) | EXPERIMENTAL |