**Tabla 1**. Comparativo de los elementos de la definición en las tres propuestas

|  |  |  |
| --- | --- | --- |
| **Propuesta A (CHy AWG)** | **Propuesta B (EEUU)** | **Propuesta Perú (B incorporando A y aportes de la reunión)** |
| Measurement of variables related to the hydrological cycle from networks of hydrological, hydrometeorological, and cryospheric stations; collection, transmission, processing, storage, retrieval and dissemination of hydrological data; | Real-time and regular measurement, collection, processing, and distribution of hydrologic and hydrometeorological data | Real-time and regular measurement, collection, processing, and distribution of hydrologic, hydrometeorological and **cryospheric** data |
| Hydrological forecasting, seasonal hydrological prediction and related functionalities (e.g. forecast verification)  Provision of hydrological, hydrometeorological, and cryospheric data, assessments, products and services for water resources management, environmental protection and the design of structures; as well as the issuance of warnings and alerts, and assessment of hydrological hazards and risks (pre- and post-event) including consideration of potential effects of climatic change; | Generation of analyses, forecasts, and warnings which inform water resources decisions across a spectrum of temporal and spatial scales | Generation of analyses, forecasts, warnings, **and assessments** which inform water resources and **risk management** decisions, **environmental protection and design of structures** across a spectrum of temporal and spatial scales**, considering climate change.** |
| Research, development and improvement of operational methods, procedures, and techniques in: i. Network design, ii. Observations and instruments, iii. Applications of remote sensing data, iv. Data transmission and processing, v. Hydrological forecasting and modeling, vi. Provision of hydroclimate services, vii. Provision of hydrometeorological services | Requires scientific and technical advancement in the areas of observation, data standards and services, modeling, prediction, hydro-informatics and decision support, training, and outreach. | **Includes** scientific and technical advancement in the areas of observation, data standards and services, modeling, prediction, hydro-informatics and decision support, training, and outreach. |
| Establishment of standards, guidelines and protocols associated with instruments, methods of observation, forecasts, assessments and data exchange; |  |  |
| Training of personnel in the collection and analysis of hydrological data, in forecasting, modeling and assessment techniques, and in service delivery. | Operational hydrology includes capacity building | Operational hydrology includes capacity building |

**Tabla 2**. Comparativo de las variables consideradas en las tres propuestas

|  |  |  |
| --- | --- | --- |
| **Propuesta A (CHy AWG)** | **Propuesta B (EEUU)** | **Propuesta Perú (B incorporando A y aportes de la reunión)** |
| Precipitation amount | precipitation | precipitation |
| Water level of rivers, lakes, reservoirs and estuaries | water level of lakes and streams  reservoir storage | water level of lakes, streams, **and estuaries**  reservoir storage |
| Water discharge of rivers | streamflow | streamflow |
| Sediment discharge of rivers | sediment discharge | sediment discharge |
| Snow and frost extent, depth, and water equivalent | snow cover, snow water equivalent | snow **and frost** **extent, depth** and water equivalent |
| Ice on rivers and lakes | river and lake ice | river and lake ice |
| Glacier mass balance | - | **Glacier mass balance** |
| Evaporation and evapotranspiration | evaporation and evapotranspiration | evaporation and evapotranspiration |
| Water temperature | water temperature | water temperature |
| Air temperature | air temperature | air temperature |
| Soil moisture (soil water content) | soil moisture | soil moisture |
| Water quality | chemical quality of water | water **and sediment** quality **(sin "chemical")** |
| Groundwater level | groundwater | groundwater (sin "level") |