

Activity Area -3 Reduced gap between research and operational hydrology applications

outcome	<i>Trusted data is made accessible to all users (from EC):</i> Increased discoverability, availability, and use of high-quality hydrometeorological and hydrologic data for scientific analysis
measure of success	Number of discharge time series with data available for 2021-2030 period that are accessible via WMO infrastructure and programmes (such as WIS, WHOS, GRDC) for scientific purposes on free and unrestricted basis.

output	activity	ID	description	LT A	SO P	success criteria	time frame	responsibility	resources	partners	linkages	MO A	comments
<i>Methods for standard assessment of data quality developed</i>	1.1 Guidelines on/development of practical methods for assessment (flagging) of hydrological data	<i>E.1.1</i>	<i>While metadata provides some information on data quality and reliability for particular use, additional assessment/classification of data uncertainty, or reliability (e.g. by flagging) might help research community in data processing. Providing guidelines and assess potential benefits of harmonized data assessment/classification system/tools</i>	5		<i>Guidelines published</i> <i>Assessment of benefits provided for further decision on the issue</i>	2025	<i>INFCOM</i>		<i>RB, RAs, SERCOM</i>	<i>OSCAR, WIS, WHOS, Capacity development programme</i>		
	1.2 Continuous development and update of Technical Regulation Vol. III and its annex on Hydrometry and other materials (including QMF-H compliance)	<i>E.1.2</i>		1, 2, 3, 4, 5, 6, 7, 8		<i>TechReg updated each CG</i>	2023, 2027	<i>INFCOM, SERCOM, HCP</i>		<i>ISO, UNEP</i>	<i>RAs</i>		
<i>Assumptions</i>													
<i>Risks</i>													
<i>Quality assured hydrometeorological data by NHTs are generated through increased compliance to the culture of Quality Management Framework - hydrology (QMF-H)</i>	Development of generic data production processes (schemes), metrics and internal guidelines (ISO 9001 like)	<i>E.2.1</i>	<i>Internal system of QMF comprising manuals, guidelines, defined processes and metrics is necessary for each enterprise, providing products and services</i>	1, 2, 3, 4, 5, 6, 7, 8		<i>Generic QMS schemes and guides developed, Number of Members who implemented QMS based on those (CPD)</i>	2025	<i>HCP, INFCOM, SERCOM</i>		<i>ISO, Members</i>	<i>RAs</i>		
	Training materials and e-learning on QMF	<i>E.2.2</i>	<i>Review of requirements of Members on training in the field of QMF/QMS should lead to</i>			<i>Review of requirements ready by 2023,</i>	2023 review of	<i>CDP</i>			<i>INFCOM, SERCOM, HCP</i>		

output	activity	ID	description	LTA	SOP	success criteria	time frame	responsibility	resources	partners	linkages	MOA	comments
	same as E.3.2	E.3.2											
Assumptions													
Risks													

outcome	Reduced gap between research and operational hydrology applications; operational hydrology uses improved understanding of Earth system science
measure of success	Number of WMO (co-)sponsored research programmes/projects that includes implementation of operational hydrological applications at Members' level during 2021-2030.

output	activity	ID	description	LTA	SOP	success criteria	time frame	responsibility	resources	partners	linkages	MOA	comments
<i>Enhanced culture of research & development to operation projects co-design (by operational hydrology and academia) - (Demonstration) projects are developed with beneficiaries being National Meteorological and Hydrological Services</i>	Catalogue of case studies/best practices (or may be bad practices as well)	F.1.1											
	Database of research needs from NHSS as a project topics repository for scientist	F.1.2											
	Implementation of research strategy for hydrology	F.1.3	<i>in cooperation with UNESCO and IAHS</i>					RB					
assumptions	<i>An effective working arrangements are set up with UNESCO-IHP IX phase</i>												
risks													
<i>Inventory of the compiled data and products from Earth systems science projects for hydrological applications</i>	<i>Similarly to activities on inventory of operational products, research outputs are compiled to be accessible for operational hydrology application where relevant</i>	F.2.1	<i>See A.11, B.7 and C.2</i>										
assumptions													

output	activity	ID	description	LTA	SOP	success criteria	time frame	responsibility	resources	partners	linkages	MOA	comments
	<i>catalogue of hazardous events)</i>												
	<i>Widen the implementation of a Water segment towards the creation of Regional Outlook Fora (ROFs), based on the successful experience of RCOFs with water segment in Central America</i>	<i>F.5.2</i>	<i>Same as C.7.1</i>										
<i>assumptions</i>													
<i>risks</i>													