

## Distance Learning Course “Interoperable data exchange in hydrology”

REFERENCES	
<b>Lesson 1.1</b>	<ul style="list-style-type: none"> <li>• <a href="#">International Glossary of Hydrology</a> (WMO-UNESCO, 2012)</li> <li>• <a href="#">Water Security – science and management challenges</a> (Howard S. Wheater, 2015)</li> <li>• <a href="#">Making Every Drop Count</a> (UN DESA &amp; World Bank, 2018).</li> <li>• <a href="#">Assessment of the State of Hydrological Services in Developing Countries</a> (World Bank, 2018)</li> <li>• <a href="#">Charting Our Water Future</a> (2030 Water Resources Group, 2009)</li> <li>• <a href="#">Economic Losses, Poverty and Disasters 1998-2017</a> (CRED &amp; UNISDR)</li> <li>• <a href="#">Measuring what we manage – the importance of hydrological data to water resources management</a> (B. Stewart, 2015)</li> <li>• <a href="#">The Data Value Chain: Moving from Production to Impact</a> (Open Data Watch)</li> <li>• <a href="#">Transboundary Waters: Sharing Benefits, Sharing Responsibilities</a> (UN-Water, 2008)</li> <li>• <a href="#">Transboundary Waters Assessment Programme (TWAP) River Basins Component</a></li> <li>• <a href="#">Policy on the Exchange of Hydrological and Meteorological Data and Information in the Sava River Basin</a> (WMO, 2014)</li> <li>• <a href="#">Transboundary Cooperation and Sustainable Development in the Rhine Basin</a> (2018)</li> <li>• <a href="#">Sharing water observations: turning local data into global information</a> (UNESCO, 2013)</li> </ul>
<b>Lesson 1.2</b>	-
<b>Lesson 1.3</b>	<ul style="list-style-type: none"> <li>• <a href="#">WMO Unified Data Policy Resolution</a> (WMO)</li> <li>• <a href="#">Supporting Development of International Data Exchange Policies</a> (WMO, 2018)</li> <li>• <a href="#">Internet of Water: Sharing and integrating water data for sustainability</a> (The Aspen Institute, 2017)</li> <li>• <a href="#">How to make your data FAIR</a> (OpenAIRE)</li> <li>• <a href="#">Data interoperability: A practitioner's guide to joining up data in the development sector</a> (Luis González Morales &amp; Tom Orrell, 2018)</li> <li>• <a href="#">Open Science Training Handbook: Open Research Data and Materials</a> (GitHub)</li> <li>• <a href="#">E-monitoring the nature of water</a> (Silvano Pecora &amp; Harry F. Lins, 2020)</li> </ul>

## REFERENCES

<b>Lesson 2.1</b>	<ul style="list-style-type: none"> <li>• <a href="#">Guide to Hydrological Practices</a> (WMO)</li> <li>• <a href="#">Manual on Stream Gauging</a> (WMO)</li> </ul>
<b>Lesson 2.2</b>	<ul style="list-style-type: none"> <li>• <a href="#">A view-based model of data-cube to support big earth data systems interoperability</a> (Stefano Nativi, Paolo Mazzetti &amp; Max Craglia, 2017)</li> <li>• <a href="#">Database Management System</a> (Learn Computer Science)</li> <li>• <a href="#">Relational Database</a> (Learn Computer Science)</li> <li>• <a href="#">MCH - Meteorology, Climatology and Hydrology Database Management System</a> (WMO)</li> </ul>
<b>Lesson 2.3</b>	<ul style="list-style-type: none"> <li>• <a href="#">What are Metadata Standards</a> (DCC, 2007)</li> <li>• <a href="#">Geospatial metadata</a> (Wikipedia)</li> <li>• <a href="#">ISO 19115-1:2014 - Geographic information - Metadata - Part 1: Fundamentals</a> (ISO)</li> <li>• <a href="#">WIGOS Metadata Standard</a> (WMO, 2019)</li> <li>• <a href="#">The Data Value Chain: Moving from Production to Impact</a> (Open Data Watch)</li> <li>• <a href="#">Designing Transnational Hydroclimatological Observation Networks and Data Sharing Policies in West Africa</a> (Data Science Journal)</li> <li>• <a href="#">CUAHSI Ontology</a></li> <li>• <a href="#">RDF 1.1 Concepts and Abstract Syntax</a> (W3C Recommendation, 2014)</li> <li>• <a href="#">RDF 1.1 Turtle</a> (W3C Recommendation, 2014)</li> <li>• <a href="#">SKOS Core Guide</a> (W3C Working Draft, 2005)</li> <li>• <a href="#">SKOS Simple Knowledge Organization System</a> (W3C Recommendation, 2009)</li> <li>• <a href="#">LodLive</a> (GitHub)</li> </ul>
<b>Lesson 2.4</b>	<ul style="list-style-type: none"> <li>• <a href="#">WaterML 2.0</a> (OGC)</li> </ul>
<b>Lesson 2.5</b>	<ul style="list-style-type: none"> <li>• <a href="#">Guide to Hydrological Practices</a> (WMO)</li> <li>• <a href="#">Manual on Stream Gauging</a> (WMO)</li> <li>• <a href="#">Technical Regulations, Volume III: Hydrology</a> (WMO)</li> <li>• <a href="#">Manual on Flood Forecasting and Warning</a> (WMO)</li> <li>• <a href="#">WIGOS Metadata Standard</a> (WMO, 2019)</li> <li>• <a href="#">Data interoperability: A practitioner's guide to joining up data in the development sector</a> (Luis González Morales &amp; Tom Orrell, 2018)</li> </ul>

## REFERENCES

<b>Lesson 3.1</b>	<ul style="list-style-type: none"><li>• <a href="#">GWIS JavaScript API</a> (USGS)</li><li>• <a href="#">Jupyter</a></li><li>• <a href="#">CUAHSI HydroDesktop</a> (GitHub)</li><li>• <a href="#">Water Data Explorer</a> (GitHub)</li><li>• <a href="#">Water Data Explorer Guide</a></li></ul>
<b>Lesson 3.2</b>	<ul style="list-style-type: none"><li>• <a href="#">Data interoperability: A practitioner's guide to joining up data in the development sector</a> (Luis González Morales &amp; Tom Orrell, 2018)</li></ul>
<b>Lesson 3.3</b>	<ul style="list-style-type: none"><li>• <a href="#">The Levels of Conceptual Interoperability Model: Applying Systems Engineering Principles to M&amp;S</a> (2009)</li></ul>