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World Meteorological Organization Organisation météorologique mondiale

# OSCAR/Surface and WSI-Part 1

Demonstration of WSI Allocation for Hydrology Stations, OSCAR/Surface Support Materials

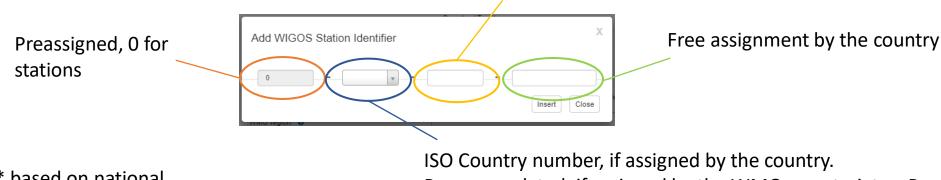
#### 29-30 January 2024, Zagreb

## **Recap: Allocation of WIGOS Station Identifiers**

- Unique Identifier of a station in the WIGOS context.
- OSCAR/Surface as the official catalogue of WSI.
- Allocation of more than one possible but not recommended.
- Format: 4 blocks with numbers and characters.
- WSI for Hydrology (10.5 WMO HYDROLOGICAL OBSERVING SYSTEM in WMO-No. 1165)
- Four scenarios proposed for hydrology

Block (content type)	1 <sup>st</sup> block (number)	2 <sup>nd</sup> block (number)	3 <sup>rd</sup> block (number)	4 <sup>th</sup> block (character)	
Description/ Name	WIGOS Identifier Series	lssuer of Identifier	Issue number	Local Identifier	
Features Allows future expansion		Allows to distinguish between identifiers issued by different organizations	Allows sub-delegation	Allocated to station	
Range	0	065534	065534	16 characters	
Example 1	0	20000		06700	
Example 2	0	124		73033	

Free\* assignment by the country, allows sub-delegation based on i.e. organisation, network, ...



\* based on national WIGOS Implementation Plan

Program-related, if assigned by the WMO secretariat or Program Focal Point.

#### WIGOS Station Identifiers Scenario A1 and A2

Scena	orio WIGOS ID Series	Issuer of ID Country ISO Code	Issue number ( <u>see WMO No. 1165</u> <u>WIGOS Guide,</u> <u>section 2.3.2</u> )	Local ID
A1	0	1-999	0	To be defined by Member
A2	0	1-999	1-99 (National organizations)	To be defined by organization



<u>Hydrological</u> <u>stations</u> <u>registered</u> <u>through the</u> National Focal

identified by its ISO 3166 (3 digits)

Country Code.

Point (NFP) on WIGOS, the issuer of identifier is

### WIGOS Station Identifiers Scenario A

			<u>Local</u> Identifier	<u>WIGOS Identifier</u> <u>Series</u>	<u>Issuer of Identifiers</u> Country ISO Code	<u>Issue number</u> National organizations	Local Identifier
<u>WIGOS ID</u> <u>Series</u>	<u>Issuer of</u> <u>Identifier</u> <u>Canada ISO</u> <u>Code</u>	<u>Issue</u> number	<u>Hydrometric Station Number Index (Yukon river at Dawson)</u>		<u>(Brazil) 076</u>	(NMET) 100 (DECEA)101 (DHN) 102 (ANA) 103 ( <del>)</del>	<u>GGGGGGGTTNNNNN²</u> 3
<u>0</u>	<u>124</u>	<u>0</u>	<u>09EB0011</u>	<u>0</u>	<u>(Côte d'Ivoire) 384</u>	<u>(NMS stations)</u> <u>1-199</u> <u>(NMS Partners' stations)</u> <u>200-299</u> <u>()</u>	To be defined by organization
the issu local id	hada as ar Jer of ider entifier be Detric Stat	itifier and ing the	the		<u>(Italy) 380</u>	<u>9000-9999</u> <u>1-2-3-()</u>	<u>1-2-3-()</u>
Hydrometric Station Number Index for the Yukon river at			A2: Br	A2: Brazil, Côte d'Ivoire and Italy proposed their own WSI nationa			

A2: Brazil, Côte d'Ivoire and Italy proposed their own WSI national schemas following this procedure, but in three different ways, which are shown above as illustrative examples.



of Canada.

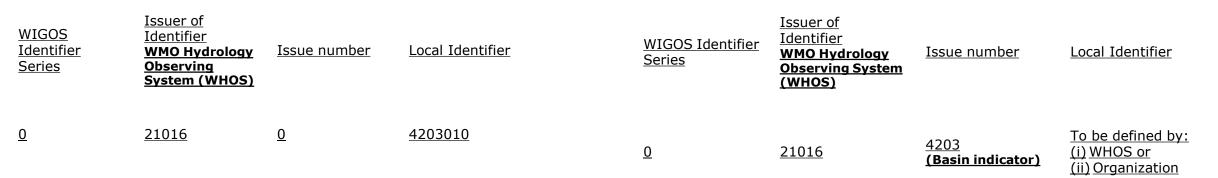
Dawson, used by Water Survey

#### WIGOS Station Identifiers Scenario A

Scenario	WIGOS ID	Issuer of ID WMO Hydrology Observing System (WHOS)	Issue number	Local ID	<ul> <li>WSI via a delegated authority from the observing component of the WHOS in case of non- Met Service observing stations, i.e. Research Organizations, Basin</li> </ul>
B1	0	21016	0	AC <sub>i</sub> BB <sub>i</sub> H <sub>i</sub> H <sub>i</sub> H (International Hydrological Code) To be defined by: - WHOS or - Organization	<ul> <li>Organizations, Basin Authorities/ Organizations, etc</li> <li>Provides a worldwide unique issuer of identifier that d identifies the station as a provider of hydrological data.</li> <li>The allocation of WSIs is done WMO Secretariat.</li> </ul>
B2	0	21016	AC <sub>i</sub> BB (Basin indicator)	<ul><li>To be defined by:</li><li>WHOS or</li><li>Organization</li></ul>	



### WIGOS Station Identifiers Scenario B1 and B2



- Procedure B1: The local identifier can be assigned using the International Hydrological Code (IHC) or organizations local ID
- The IHC (from <u>Manual on Codes, No.306</u>, see section F of each regional Chapter) allows identification of the WMO Region (A), country (C<sub>i</sub>), river basin or group of basins (BB) and the station  $(i_H i_H i_H)$ .
- The lists of C<sub>i</sub> and BB are published in Volume II of the Manual on Codes (WMO–No. 306), while the  $i_H i_H i_H$  value has to be set in a unique way at national level.
- The same example in A1: WHOS (21016), the local identifier refers to the WMO Region (4), country (2), river basin (03) and station (010 given randomly).

B2: In this case, a part of the IHC was allocated to the issue number. The region (A), country ( $C_i$ ) and basin (BB) identifiers are used: it would enable the issuer of an identifier to categorize stations, allow basin organizations to issue WSIs independently and limit duplicates.



# Assignment

Type of station	Station	WIGOS ID	Issuer of ID	Issue number	Local ID
Inland (A1)					
Inland (A2)					
Inland (B1)					
Inland (B2)					
Transboundary (A1)					
Transboundary (A2)					
Transboundary (B1)					
Transboundary (B2)					

#### For Any Queries Contact: whos@wmo.int