

So you want to improve your weather monitoring network?

The series of CSA R100 standards can help you make operational efficiencies.

The series of CSA R100 National Standards



CSA R100:20

Canadian metadata standard for hydrometeorological monitoring stations



CSA R101:22

Automated hydrometeorological monitoring stations: site selection, instrument installation, and instrument maintenance



CSA R102:22

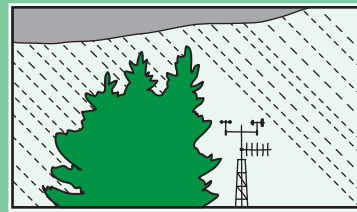
Data qualification for Canadian automated hydrometeorological monitoring stations



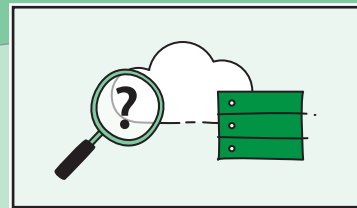
CSA R103:23

Protocols for sharing automated hydrometeorological monitoring stations data and metadata

Problem



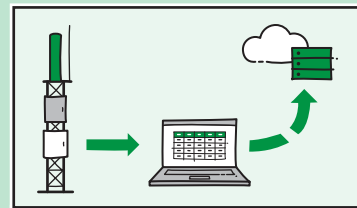
Data needs to be more accurate.



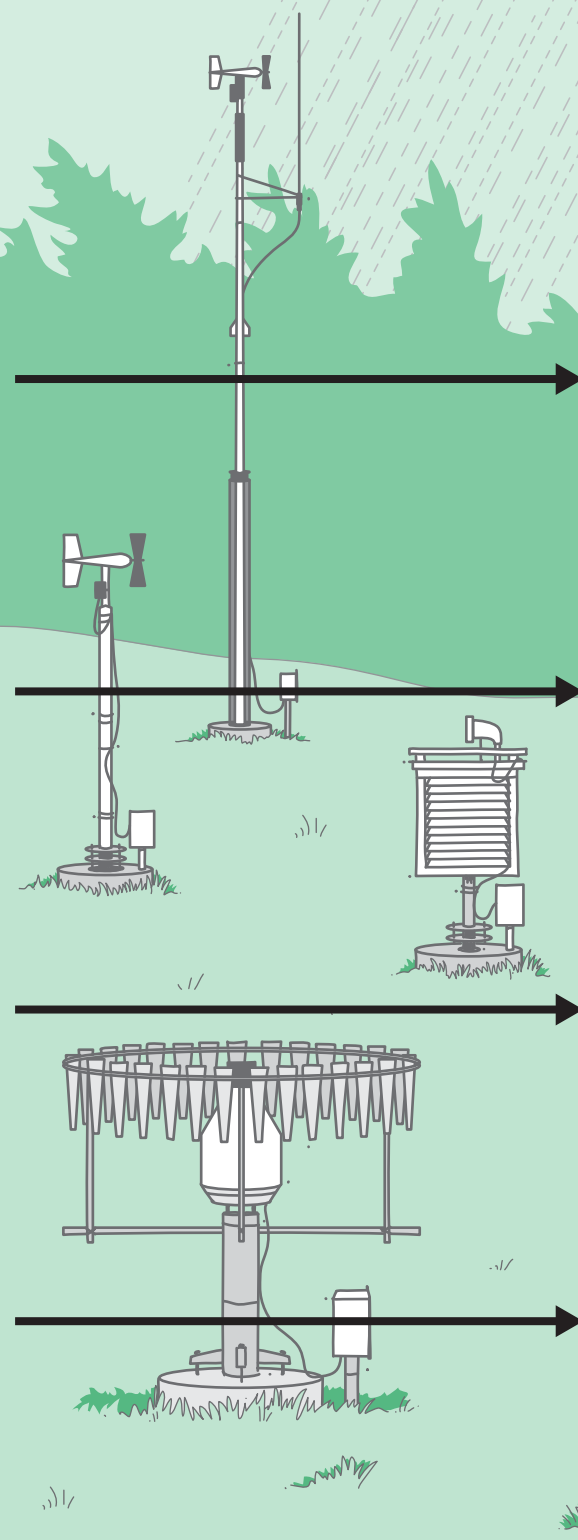
Data needs to be more discoverable.



User needs are not being met.



Data needs to be more accessible.



How the Standards Can Help



R101:22

Learn about requirements and recommendations for selecting monitoring station sites, and guidance for installing and maintaining automated instrumentation.



R100:20

Learn best practices for publishing metadata publicly at a central repository.



R100:20

Improve user understanding of site limitations. Determine which instruments are needed.



R101:22

Look at representation and siting guidelines for data collected around the station.



R102:22

Assess and quantify factors contributing to the quality of hydrometeorological data.



R103:23

Consider data sharing policies and agreements; reporting formats; data validation; data transparency and more.

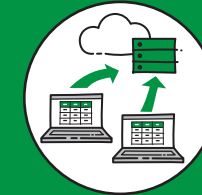
Benefits of using the standards



Save costs by optimizing your current network.



Improve the discoverability of your data.



Enhance your current network.

Why are the standards important?

In Canada, the national source for weather and climate information is Environment and Climate Change Canada (ECCC). In addition to ECCC's extensive network of monitoring stations, there are potentially thousands of additional stations collecting useful information.

Using these standards will increase the quality of your data and make it more widely accessible--improving local knowledge on climate, and helping Canadians prepare for the future.

