

MILESTONES CHART for the 2020 International Great Lakes Datum

Activity	Timeline	Status	Lead Agency
Complete bi-national plan for IGLD (2020) and present to the Coordinating Committee for approval	2018	●	VC-WL-Subcommittee
Choose and adopt a Wo as the new IGLD (2020) reference zero	2015	●	Coordinating Committee
Identify potential partners and users who can help develop and implement IGLD (2020)	2016-2023	●	VC-WL-Subcommittee
Digitize and archive old leveling information, as required	2016-2023	●	CGS, CHS, CO-OPS, NGS
Perform annual maintenance and leveling ties at permanent water level gauges	2016-2024	●	CO-OPS, USACE, CHS, ECCC & Others
Perform analysis of permanent gauging requirements and prioritize new proposed gauges	2023 (CHS) Complete (NOAA)	●	CO-OPS, CHS
Adjust and publish 2015 GPS campaign survey results	2017	●	CGS, NGS
Complete preparation of internationally coordinated methodologies for determining height using GNSS surveys and local leveling ties at gauges	2017-2018	●	CGS, CHS, CO-OPS, NGS, USACE, USGS
Complete preparation of international outreach and communications plan, and begin implementation	2017-2020	●	VC-WL-Subcommittee
Review historic water level data for re-evaluation of Low Water Datum (LWD)	2017-2022	●	CHS, ECCC, CO-OPS, USACE
Determine recommendation and obtain stakeholder input for LWD	2024	●	CHS, ECCC, CO-OPS, USACE
Reanalyze and compare all GPS campaign surveys from 1997, 2005, 2010, 2015 to estimate preliminary rates of movement	2017-2018	●	CGS, NGS
Perform analysis of seasonal gauging requirements and prioritize locations	2017-2023	●	CHS, CO-OPS
Continue annual installations of seasonal water level gauges with GPS and leveling ties	2017-2024	●	CHS, CO-OPS
Perform GNSS Campaign survey in Great Lakes - St. Lawrence River system, including entity gauges	2022	●	CGS, CHS, CO-OPS, NGS
Process GNSS Campaign data	2022-2023	●	NGS, CGS
Adopt North American geoid model for IGLD (2020)	After 2025	●	Coordinating Committee with CGS, NGS
Complete seasonal water level gauging data processing	2024	●	CHS, CO-OPS
Determine hydraulic correctors	2024	●	CGS, CHS, ECCC, CO-OPS, NGS
Create crustal movement models for the Great Lakes - St. Lawrence Rivery system using GNSS campaigns and CORS/CACS data	2025	●	
Determine new Low Water Datum on lakes and rivers with respect to IGLD (2020)	2026	●	CHS, ECCC, CO-OPS, USACE
Determine and publish transformations between IGLD (2020) and other datums, including IGLD (1985)	2026	●	CGS, NGS
Perform GNSS campaign survey to help validate velocities at permanent gauges	2027	●	Coordinating Committee
Update and publish Gauge Histories	2027	●	Coordinating Committee
Update Connecting Channels Step Charts to IGLD (2020)	2027	●	Coordinating Committee
Publish new IGLD (2020)	2027	●	Coordinating Committee
Publish final IGLD (2020) report	2028	●	Coordinating Committee

Chart Key

Status	Completed ●	Underway / In Progress ●	Delayed ●	Planned / Not Yet Started ●
Agency	CGS	Canadian Geodetic Survey (Can)		
	CHS	Canadian Hydrographic Survey (Can)		
	CO-OPS	Center for Operational Oceanographic Products & Services (US)		
	Coordinating Committee	Coordinating Committee on Great Lakes Basic Hydraulic & Hydrologic Data (Binational)		
	ECCC	Environment and Climate Change Canada (Can)		
	NGS	National Geodetic Survey (US)		
	USACE	US Army Corps of Engineers (US)		
	USGS	US Geological Survey (US)		
	VC-WL Subcommittee	Vertical Control - Water Levels Subcommittee (Subcommittee of the Coordinating Committee) (Binational)		