

Table S1. Ranges of dates where OHAWS was affected by snow capping (i.e. periods over which precipitation data at OHAWS were approximated from their relationship to precipitation recorded at OPAWS). Total precipitation approximated over snow capping periods is also shown.

Start	End	Total precipitation (mm)
2011-02-14	2011-03-09	37.8
2012-03-04	2012-04-10	170.0
2012-12-11	2013-01-15	47.8
2014-01-09	2014-01-26	41.1
2014-11-21	2015-01-21	137.6
2016-11-27	2017-01-11	52.7

Table S2. Summary table listing time series, measurement interval and years of availability. For years highlighted in green, timeseries data are available with no large data gaps (>1 month). For years highlighted in orange, timeseries data are available with one or more large gaps. For years highlighted in white, no timeseries data are available.

[illegible]

Table S3. Universal Transverse Mercator coordinates of weather (OHAWS and OPAWS) and stream gauging stations (Zone 11, North American Datum 1983).

Station	Easting	Northing
OHAWS	545820	5689974
OPAWS	547234	5688222
Gorge	546951	5688770
Mary	546407	5689381
Oesa Falls	546986	5689650
Outlet	546024	5689869
Upper Opabin Creek	547193	5688116
Hungabee	547340	5688082
Opabin West	546750	5689402
Opabin East	546900	5689437
Lefroy Oesa	547951	5689574

Table S4. Measured sensor heights at OPAWS and OHAWS over the monitoring period of 2004 – 2017.

Station	Date	Sensor	Height (m)
OPAWS	11-Jun-15	SR-50	2.42
		HMP45	2.53
		Geonor T200B	2.37
		CNR1	2.69
	28-Aug-12	SR-50	2.49
		CNR1	2.74
		HMP45	2.60
		RM Young 05103	4.05
	24-Sep-12	SR-50	2.87
		CNR1	2.71
		HMP45	3.40
		RM Young 05103	4.67
	23-Jan-07	SR-50	2.99
	5-Dec-06	SR-50	1.91
		CNR1	2.50
		HMP45	3.33
	20-Jun-06	SR-50	1.56
OHAWS	11-Jun-15	SR-50	2.15
		HMP45	2.19
		NR-Lite	2.00
		RM Young 05103	3.10
		Geonor T200B	2.22
	28-Sep-11	SR-50	2.10
	06-Dec-06	SR-50	1.79
	21-Jun-06	SR-50	1.56
	21-Apr-06	SR-50	1.87