

## Mass Balance Dates

Dates of mass balance measurement intervals. Measurements are used for calculating the water equivalent change (weq cm) at each glacier.

### Canada Glacier

1993 - 1994: Nov-93 to Dec-93, Dec-93 to Jan-94, Nov-93 to Jan-94, Jan-94 to Nov-94, Nov-93 to Nov-94  
1994 - 1995: Nov-94 to Jan-95, Jan-95 to Oct-95, Nov-94 to Oct-95  
1995 - 1996: Oct-95 to Dec-95, Dec-95 to Jan-96, Oct-95 to Jan-96, Jan-96 to Oct-96, Oct-95 to Oct-96  
1996 - 1997: Oct-96 to Jan-97, Jan-97 to Nov-97, Oct-96 to Nov-97  
1997 - 1998: Nov-97 to Jan-98, Jan-98 to Nov-98, Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Dec-98, Dec-98 to Jan-99, Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08  
2008 - 2009: Nov-08 to Jan-09, Jan-09 to Nov 09, Nov 08 to Nov-09  
2009 - 2010: Nov-09 to Jan-10

### Commonwealth Glacier

1993 - 1994: Nov-93 to Dec-93, Dec-93 to Jan-94, Nov-93 to Jan-94, Jan-94 to Nov-94, Nov-93 to Nov-94  
1994 - 1995: Nov-94 to Jan-95, Jan-95 to Oct-95, Nov-94 to Oct-95  
1995 - 1996: Nov-95 to Dec-95, Dec-95 to Jan-96, Nov-95 to Jan-96, Jan-96 to Nov-96, Nov-95 to Nov-96  
1996 - 1997: Nov-96 to Jan-97, Jan-97 to Nov-97, Nov-96 to Nov-97  
1997 - 1998: Nov-97 to Jan-98, Jan-98 to Nov-98, Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08  
2008 - 2009: Nov-08 to Jan-09, Jan-09 to Nov 09, Nov 08 to Nov-09  
2009 - 2010: Nov-09 to Jan-10

### Howard Glacier

1993 - 1994: Nov-93 to Dec-93, Dec-93 to Jan-94, Nov-93 to Jan-94, Jan-94 to Nov-94, Nov-93 to Nov-94  
1994 - 1995: Nov-94 to Jan-95, Jan-95 to Oct-95, Nov-94 to Oct-95  
1995 - 1996: Oct-95 to Dec-95, Dec-95 to Jan-96, Oct-95 to Jan-96, Jan-96 to Oct-96, Oct-95 to Oct-96  
1996 - 1997: Nov-96 to Jan-97, Jan-97 to Nov-97, Nov-96 to Nov-97  
1997 - 1998: Nov-97 to Jan-98, Jan-98 to Nov-98, Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08  
2008 - 2009: Nov-08 to Jan-09, Jan-09 to Nov 09, Nov 08 to Nov-09  
2009 - 2010: Nov-09 to Jan-10

## Mass Balance Dates

### Hughes Glacier

1993 - 1994:  
1994 - 1995: Nov-94 to Jan-95, Jan-95 to Oct-95, Nov-94 to Oct-95  
1995 - 1996: Nov-95 to Jan-96, Jan-96 to Nov-96, Nov-95 to Nov-96  
1996 - 1997: Nov-96 to Nov-97  
1997 - 1998: Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08

### Suess Glacier

1993 - 1994:  
1994 - 1995: Jan-95 to Nov-95  
1995 - 1996: Nov-95 to Jan-96, Jan-96 to Nov-96, Nov-95 to Nov-96  
1996 - 1997: Nov-96 to Nov-97  
1997 - 1998: Nov-97 to Jan-98, Jan-98 to Nov-98, Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-08, Nov-07 to Nov-08  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08  
2008 - 2009: Nov-08 to Jan-09

### Taylor Glacier

1993 - 1994:  
1994 - 1995: Nov-94 to Jan-95, Jan-95 to Oct-95, Nov-94 to Oct-95  
1995 - 1996: Nov-95 to Dec-95, Dec-95 to Jan-96, Nov-95 to Jan-96, Jan-96 to Nov-96, Nov-95 to Nov-96  
1996 - 1997: Nov-96 to Dec-96, Dec-96 to Jan-97, Nov-96 to Jan-97, Jan-97 to Nov-97, Nov-96 to Nov-97  
1997 - 1998: Nov-97 to Jan-98, Jan-98 to Nov-98, Nov-97 to Nov-98  
1998 - 1999: Nov-98 to Jan-99, Jan-99 to Nov-99, Nov-98 to Nov-99  
1999 - 2000: Nov-99 to Jan-00, Jan-00 to Nov-00, Nov-99 to Nov-00  
2000 - 2001: Nov-00 to Jan-01, Jan-01 to Nov-01, Nov-00 to Nov-01  
2001 - 2002: Nov-01 to Jan-02, Jan-02 to Nov-02, Nov-01 to Nov-02  
2002 - 2003: Nov-02 to Jan-03, Jan-03 to Nov-03, Nov-02 to Nov-03  
2003 - 2004: Nov-03 to Jan-04, Jan-04 to Nov-04, Nov-03 to Nov-04  
2004 - 2005: Nov-04 to Jan-05, Jan-05 to Nov-05, Nov-04 to Nov-05  
2005 - 2006: Nov-05 to Jan-06, Jan-06 to Nov-06, Nov-05 to Nov-06  
2006 - 2007: Nov-06 to Jan-07, Jan-07 to Nov-07, Nov-06 to Nov-07  
2007 - 2008: Nov-07 to Jan-08, Jan-08 to Nov-08, Nov-07 to Nov-08  
2008 - 2009: Nov-08 to Jan-09, Jan-09 to Nov 09, Nov 08 to Nov-09  
2009 - 2010: Nov-09 to Jan-10

# Stake Measurement Dates

Month and day of stake measurements at each glacier.

## Canada Glacier

1993 - 1994: Nov 7, 10, 13, Dec 29, Jan 23  
1994 - 1995: Nov 4, 5, 6, Jan 11, 12, 13, 18  
1995 - 1996: Oct 27, 28, 29, Nov 2, 3, 4, Dec 26, Jan 20, 21, 22  
1996 - 1997: Oct 30, 31, Nov 1, Dec 6, 9, 26, Jan 19, 23, 27  
1997 - 1998: Nov 8, Jan 20, 21, 22, 23, 29  
1998 - 1999: Nov 5, 6, 7, 9, Dec 3, 5, 6, Jan 13, 14  
1999 - 2000: Nov 2, 12, 13, Dec 7, 20, Jan 15, 16  
2000 - 2001: Nov 12, Dec 2, Jan 16, 17, 18, 21  
2001 - 2002: Nov 9, 10, 21, 24, Dec 26, Jan 16, 17, 20, 26  
2002 - 2003: Nov 13, 14, Jan 19, 21  
2003 - 2004: Nov 9, 11, 18, 20, Jan 21, 22, 29  
2004 - 2005: Nov 4, 6, Jan 16, 17, 20  
2005 - 2006: Oct 29, 30, 31, Nov 3, Jan 14, 21  
2006 - 2007: Nov 6, 11, Jan 15, 17  
2007 - 2008: Nov 9, 15; Jan 15, 25  
2008 - 2009: Nov 4, 10, 11, Jan 17, 21  
2009 - 2010: Nov 11, 13, Jan 18, 22

## Commonwealth Glacier

1993 - 1994: Oct 22, 23, 25, 27, Nov 18, 19, Dec 30, Jan 26  
1994 - 1995: Nov 12, 14, 15, 16, 17, Jan 14, 16, 18  
1995 - 1996: Nov 7, 8, 13, 14, Dec 13, 14, Jan 11, 12, 15, 16, 22  
1996 - 1997: Nov 6, 7, 11, 16, 29, Jan 17, 18  
1997 - 1998: Nov 10, Jan 26, 27  
1998 - 1999: Nov 17, 18, 23, 24, 25, Dec 30, Jan 19, 20  
1999 - 2000: Nov 8, 9, 10, Jan 20, 22, 25  
2000 - 2001: Nov 11, 20, 21, Jan 16, 22, 23  
2001 - 2002: Nov 12, 13, 19, Jan 25, 28  
2002 - 2003: Nov 18, 19, 27, Jan 15, 23  
2003 - 2004: Nov 10, 13, Jan 15, 19  
2004 - 2005: Nov 3, 9, Jan 18  
2005 - 2006: Nov 1, 4, Jan 19, 20  
2006 - 2007: Nov 7, 8, Jan 16, 18  
2007 - 2008: Nov 10, 12; Jan 19, 21  
2008 - 2009: Nov 5, 6, Jan 14, 19  
2009 - 2010: Nov 12, 17, Jan 16, 19

## Howard Glacier

1993 - 1994: Nov 4, 6, 8, 18, Dec 31, Jan 26  
1994 - 1995: Nov 8, 9, 10, Jan 17, 24  
1995 - 1996: Oct 30, 31, Nov 6, Dec 15, Jan 17, 22  
1996 - 1997: Nov 5, 8, 9, Jan 20  
1997 - 1998: Nov 8, Jan 24  
1998 - 1999: Nov 10, 16, 25, Jan 21, 27  
1999 - 2000: Nov 4, 17, Jan 21, 25  
2000 - 2001: Nov 14, 23, 29, Jan 20, 24  
2001 - 2002: Nov 14, 16, Jan 22, 29  
2002 - 2003: Nov 20, 26, Jan 16  
2003 - 2004: Nov 12, Jan 16  
2004 - 2005: Nov 8, Jan 17  
2005 - 2006: Nov 5, Jan 16, Feb 1  
2006 - 2007: Nov 9, Jan 19  
2007 - 2008: Nov 13, Jan 22  
2008 - 2009: Nov 7, Jan 15  
2009 - 2010: Nov 16, Jan 20

## Stake Measurement Dates

### Hughes Glacier

1993 - 1994:  
1994 - 1995: Dec 29, Jan 24  
1995 - 1996: Nov 28, Jan 20  
1996 - 1997: Nov 16  
1997 - 1998: Nov 11  
1998 - 1999: Nov 19, Dec 11, Jan 18  
1999 - 2000: Nov 8, Jan 25  
2000 - 2001: Nov 17, Jan 19  
2001 - 2002: Nov 20, Jan 23  
2002 - 2003: Nov 26, Jan 24  
2003 - 2004: Nov 19, Jan 24  
2004 - 2005: Nov 12, Jan 25  
2005 - 2006: Nov 7, Jan 17  
2006 - 2007: Nov 10, Jan 20  
2007 - 2008: Nov 14, Jan 23  
2008 - 2009: Nov 8

### Suess Glacier

1993 - 1994:  
1994 - 1995: Jan 2, 16  
1995 - 1996: Nov 1, 3, Jan 20  
1996 - 1997: Nov 02  
1997 - 1998: Nov 11, Jan 29  
1998 - 1999: Nov 11, Dec 7, Jan 15  
1999 - 2000: Nov 11, 16, Jan 23  
2000 - 2001: Nov 17, Jan 21  
2001 - 2002: Nov 26, Jan 30  
2002 - 2003: Nov 22, Jan 24  
2003 - 2004: Nov 19, Jan 23  
2004 - 2005: Nov 7, Jan 20  
2005 - 2006: Nov 2, Jan 15  
2006 - 2007: Nov 11, Jan 14  
2007 - 2008: Nov 11, Jan 31  
2008 - 2009: Nov 12, Jan 18

### Taylor Glacier

1993 - 1994:  
1994 - 1995: Nov 19, 21, Jan 23  
1995 - 1996: Nov 16, 17, Dec 19, Jan 18, 19  
1996 - 1997: Nov 13, 15, 18, 27, Dec 3, Jan 21  
1997 - 1998: Nov 11, Jan 21, 23  
1998 - 1999: Nov 13, 14, Jan 18  
1999 - 2000: Nov 3, 11, 17, Jan 17, 18  
2000 - 2001: Nov 16, 22, Jan 19, 25  
2001 - 2002: Nov 15, 17, 28, Jan 7, 23, 24  
2002 - 2003: Nov 15, 16, 26, Jan 17  
2003 - 2004: Nov 14, Jan 17, 20, 24  
2004 - 2005: Nov 12, Jan 19, 24, 25  
2005 - 2006: Nov 7, Jan 17, 18, 24  
2006 - 2007: Nov 10, Jan 13, 20  
2007 - 2008: Nov 14, Jan 23  
2008 - 2009: Nov 8, Jan 16  
2009 - 2010: Nov 18, Jan 21

# Snow Density Measurement Dates

## Canada Glacier

1993 - 1994	
1994 - 1995	
1995 - 1996	Oct 27, 28, Nov 4, Jan 20
1996 - 1997	Oct 31, Nov 1, Jan 19, 23
1997 - 1998	Nov 8, Jan 20
1998 - 1999	Jan 13
1999 - 2000	Nov 2, 12, Jan 16
2000 - 2001	Nov 12, Jan 16, 17, 18, 21
2001 - 2002	Nov 10
2002 - 2003	Nov 13, 14, Jan 19
2003 - 2004	Nov 11, Jan 21, 29
2004 - 2005	Nov 6, Jan 16, 17
2005 - 2006	Oct 30, 31, Nov 11, Jan 14
2006 - 2007	Nov 6, 11
2007 - 2008	Nov 9, 15; Jan 15, 25
2008 - 2009	Nov 4, 10, 11, Jan 17, 21
2009 - 2010	Nov 13, Jan 18

## Commonwealth Glacier

1993 - 1994	Oct 25, 27, Jan 14, 16
1994 - 1995	Nov 12, 14, Dec 9, Jan 14, 16
1995 - 1996	Nov 7, 8, 13, 14, Dec 13, 14, Jan 11, 12, 15, 16
1996 - 1997	Nov 6, 7, 11, 16, 29, Jan 17, 18
1997 - 1998	Nov 8, Jan 26, 27, 28
1998 - 1999	Nov 17, 18, 23, 24, Jan 19, 20
1999 - 2000	Nov 8, 9, Jan 20, 22
2000 - 2001	Nov 11, 20, 21, Jan 16, 22, 23
2001 - 2002	Nov 12, 13, 19, Jan 25, 28
2002 - 2003	Nov 18, 19, 27, Jan 15, 23
2003 - 2004	Nov 10, 13, Jan 15, 19
2004 - 2005	Nov 3, 9, Jan 18
2005 - 2006	Nov 1, 4, Jan 20
2006 - 2007	Nov 7, 8, Jan 16, 18
2007 - 2008	Nov 10, 12; Jan 19, 21
2008 - 2009	Nov 5, 6, Jan 14, 19

## Howard Glacier

1993 - 1994	
1994 - 1995	Nov 8, 23, Jan 17
1995 - 1996	Oct 30, 31, Nov 6, Dec 15, Jan 17, 22
1996 - 1997	Nov 5, 8, Jan 20, 22
1997 - 1998	Jan 17
1998 - 1999	Nov 16, Jan 21
1999 - 2000	Nov 4, 17, Jan 20, 21
2000 - 2001	Nov 14, 23, 29, Jan 20, 24
2001 - 2002	Nov 14, Jan 29
2002 - 2003	Nov 20, 25, Jan 16
2003 - 2004	Nov 12, Jan 16
2004 - 2005	Nov 8, Jan 17
2005 - 2006	Nov 5, Jan 16
2006 - 2007	Nov 9, Jan 19
2007 - 2008	Nov 13, Jan 22
2008 - 2009	Nov 7, Jan 15
2009 - 2010	Nov 16, Jan 20

## Taylor Glacier

1993 - 1994	
1994 - 1995	
1995 - 1996	Jan 21
1996 - 1997	
1997 - 1998	
1998 - 1999	
1999 - 2000	
2000 - 2001	
2001 - 2002	Nov 15
2002 - 2003	
2003 - 2004	Jan 19
2004 - 2005	
2005 - 2006	
2006 - 2007	
2007 - 2008	
2008 - 2009	

## Snow Density Measurement Dates

2009 - 2010    Nov 12, 17, Jan 16, 19

2009 - 2010