Supplement

First version 18 December 2015

Updated 28 July 2016

Section 1. Areas and periods shown with unrealistically deep snow (1958-2016)[1]

This section summarizes typical snow distributions for areas where snow was shown as being unrealistically deep due to snow depth analysis bugs. It also includes tabulation of periods during which a significant impact is seen for each of these areas.

For more detailed information regarding the grid points where snow was shown as being unrealistically deep, please see JRA-55_snow_hist1_update_en.txt.

1.1. Europe

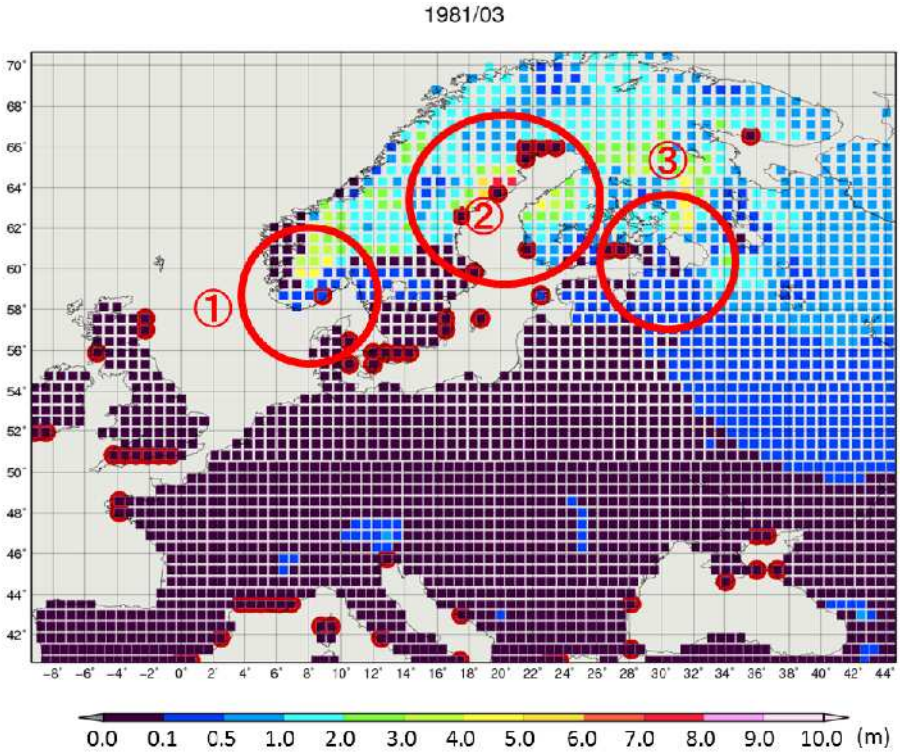

Fig. 1.1. Areas shown with unrealistically deep snow in Europe for March 1981

Shading shows monthly mean snow depth, red dots represent grid points in which the interpolation error occurred, and red circles indicate areas where snow is shown as being unrealistically deep due to an error in snow cover climatology interpolation.

Table 1.1. Periods during which a significant impact is seen in Europe

Area	Period of significant impact (boreal winter only)
1	1980/1981 to 1985/1986
2	1979/1980 to 1986/1987, 2012/2013, 2014/2015
3	1958 to 1986/1987

[1] Red text indicates changes from the first version.

1.2. Western Siberia

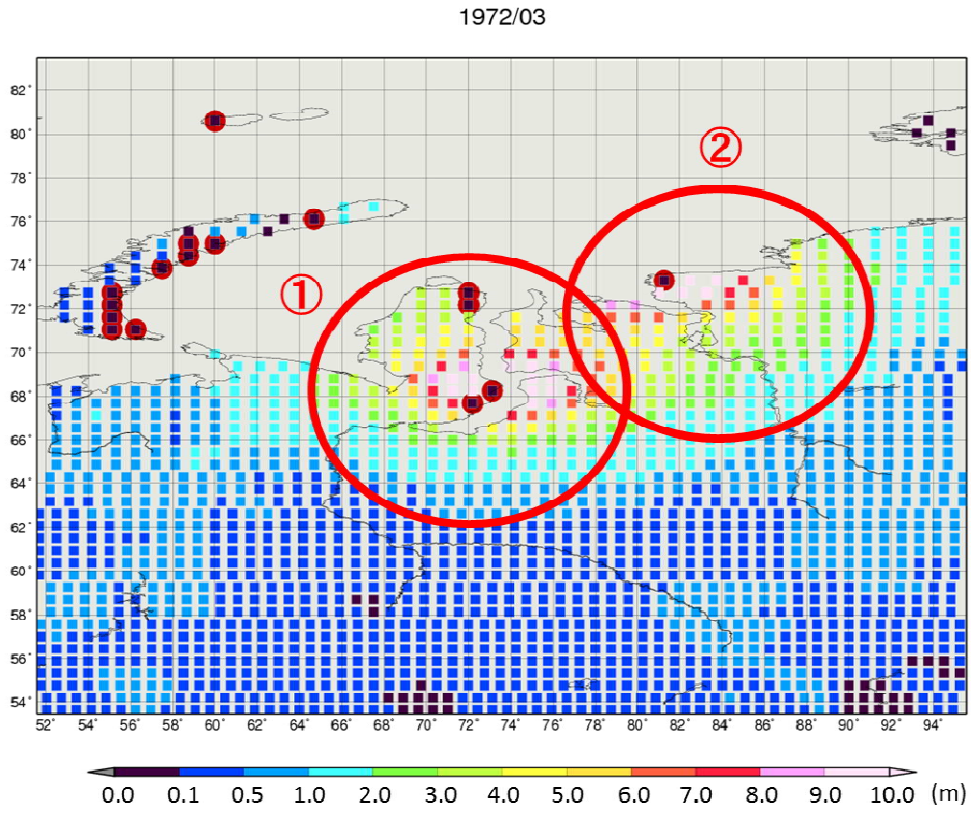

Fig. 1.2. Areas shown with unrealistically deep snow in Western Siberia for March 1972
Shading, red dots and red circles are as per Fig. 1.1.

Table 1.2. Periods during which a significant impact is seen in Western Siberia.

Area	Period of significant impact (boreal winter only)
1	1958 to 1985/1986
2	1958, 1966/1967 to 1979/1980, 1987/1988

1.3. East Asia

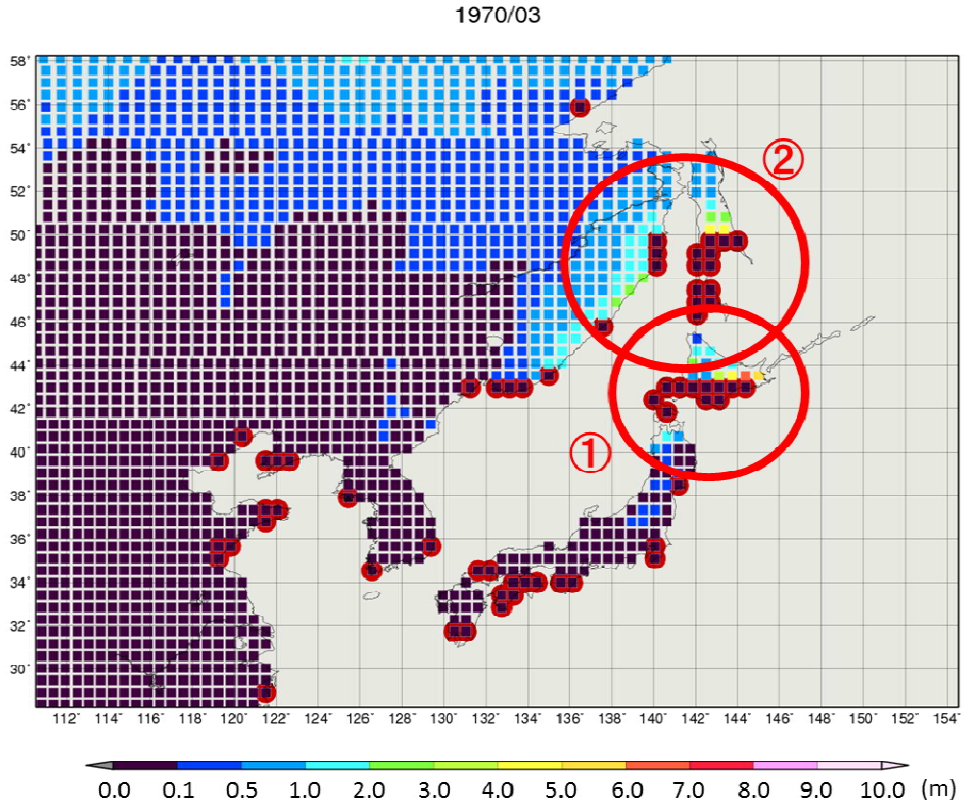

Fig. 1.3. Areas shown with unrealistically deep snow in East Asia for March 1970.
Shading, red dots and red circles are as per Fig. 1.1.

Table 1.3. Periods during which a significant impact is seen in East Asia.

Area	Period of significant impact (boreal winter only)
1	1959/1960 to 1986/1987
2	1966/1967, 1968/1969 to 1970/1971, 1973/1974 to 1980/1981, 1985/1986, 1987/1988 to 1989/1990, 1991/1992 to 1999/2000, 2001/2002, 2002/2003, 2005/2006, 2012/2013 to 2014/2015

1.4. Eastern Siberia

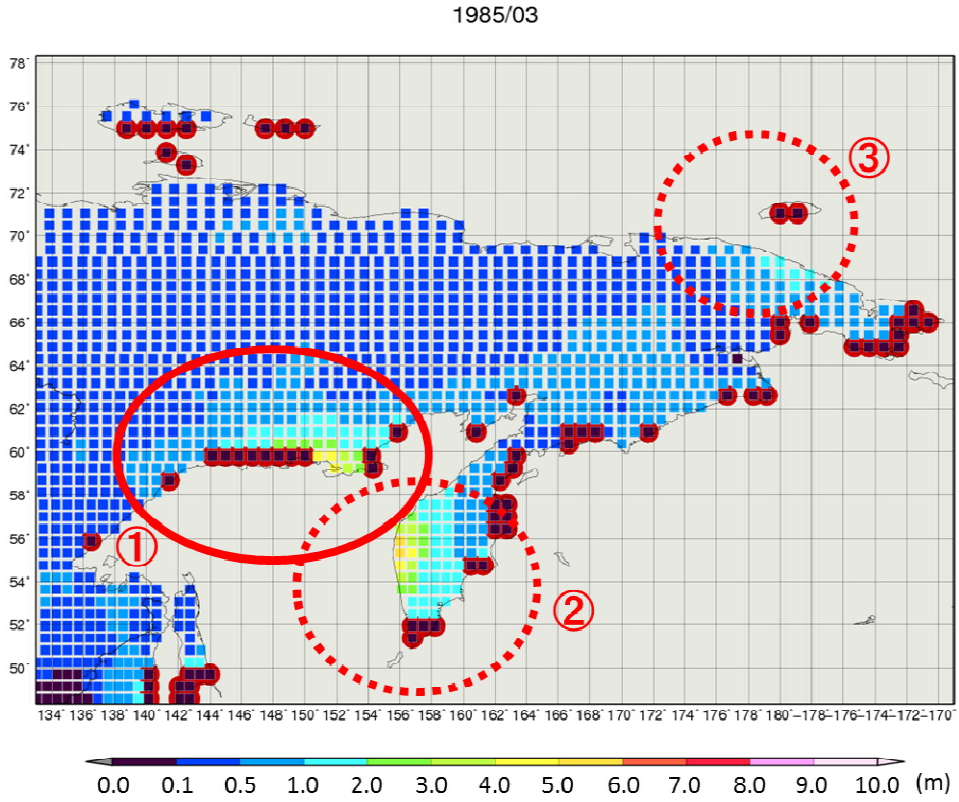

Fig. 1.4. Areas shown with unrealistically deep snow in Eastern Siberia for March 1985
Shading, red dots and red circles are as per Fig. 1.1. Dotted red circles indicate areas where snow is shown as being unrealistically deep due to an error in the handling of coastal-area snow depth observation data.

Table 1.4. Periods during which a significant impact is seen in Eastern Siberia.

Area	Period of significant impact (boreal winter only)
1	1962/1963, 1965/1966, 1966/1967, 1970/1971 to 1973/1974, 1980/1981 to 1982/1983, 1984/1985 to 1987/1988, 2013/2014
2	1958/1959 to 1962/1963, 1965/1966, 1980/1981, 1984/1985, 1985/1986, 1987/1988, 1988/1989, 1993/1994, 1995/1996, 1996/1997, 1998/1999, 2004/2005, 2006/2007 to 2013/2014
3	2009/2010, 2010/2011, 2012/2013, 2013/2014, 2015/2016

1.5. Northwestern North America

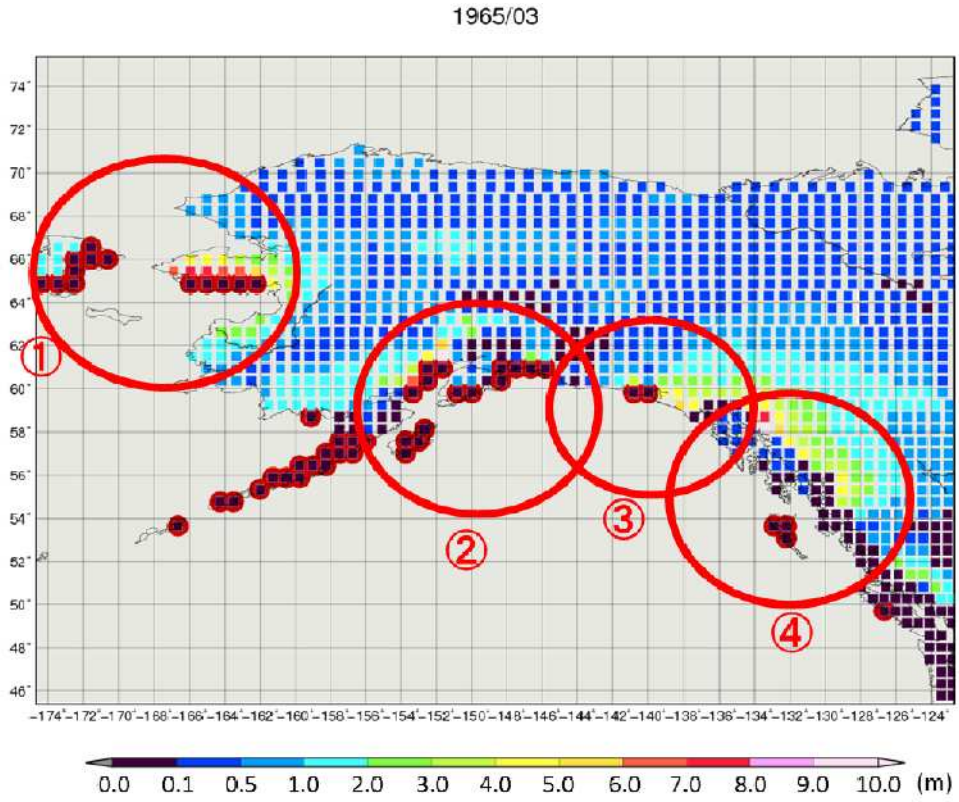

Fig. 1.5. Areas shown with unrealistically deep snow in northwestern North America for March 1965.

Shading, red dots and red circles are as per Fig. 1.1.

Table 1.5. Periods during which a significant impact is seen in northwestern North America.

Area	Period of significant impact (boreal winter only)
1	1958/1959, 1964/1965 to 1966/1967, 1972/1973, 1973/1974, 1976/1977, 1980/1981, 1983/1984 to 1990/1991, 1992/1993 to 1994/1995, 2008/2009, 2011/2012, 2012/2013
2	1958/1959 to 1961/1962, 1964/1965 to 1966/1967, 1971/1972 to 1989/1990, 1994/1995 to 1996/1997, 1998/1999, 2008/2009, 2009/2010
3	1958/1959, 1964/1965 to 1985/1986, 2011/2012
4	1958/1959 to 1961/1962, 1964/1965 to 1966/1967, 1968/1969, 1970/1971 to 1975/1976, 1977/1978, 1978/1979, 1981/1982 to 1984/1985, 2006/2007 to 2008/2009

1.6. Northern Canada

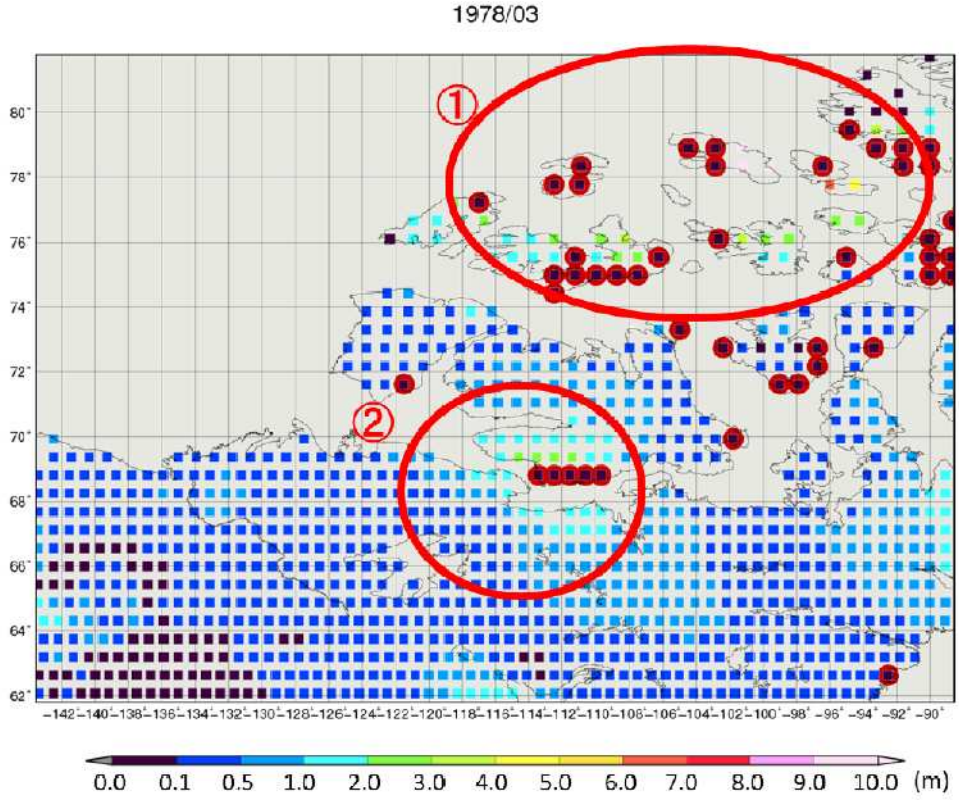

Fig. 1.6. Areas shown with unrealistically deep snow in northern Canada for March 1978.

Shading, red dots and red circles are as per Fig. 1.1.

Table 1.6. Periods during which a significant impact is seen in northern Canada.

Area	Period of significant impact (boreal winter only)
1	1977/1978
2	1977/1978, 1980/1981 to 1982/1983, 1984/1985 to 1987/1988

1.7. Northeastern Canada

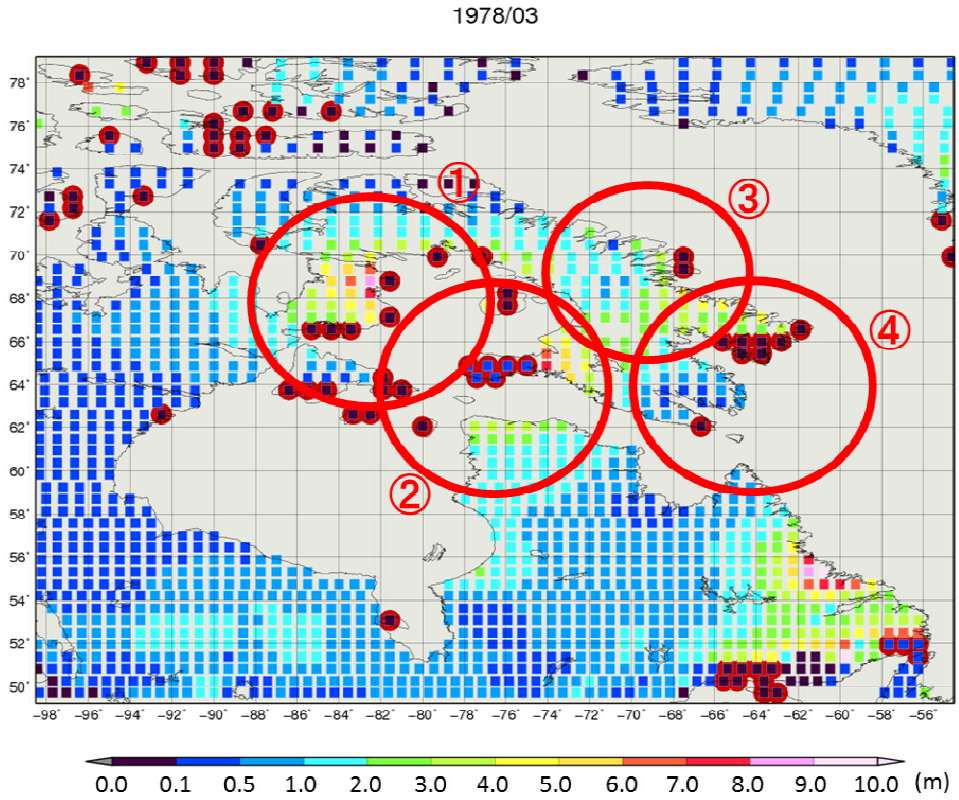

Fig. 1.7. Areas shown with unrealistically deep snow in northeastern Canada for March 1978.

Shading, red dots and red circles are as per Fig. 1.1.

Table 1.7. Periods during which a significant impact is seen in northeastern Canada.

Area	Period of significant impact (boreal winter only)
1	1977/1978, 1978/1979, 1980/1981 to 1990/1991, 1992/1993, 1993/1994
2	1977/1978, 1978/1979, 1987/1988
3	1977/1978, 1985/1986, 1987/1988 to 1990/1991, 1993/1994
4	1977/1978, 1978/1979, 1980/1981 to 1983/1984, 1985/1986 to 1990/1991

1.8. Northeastern North America

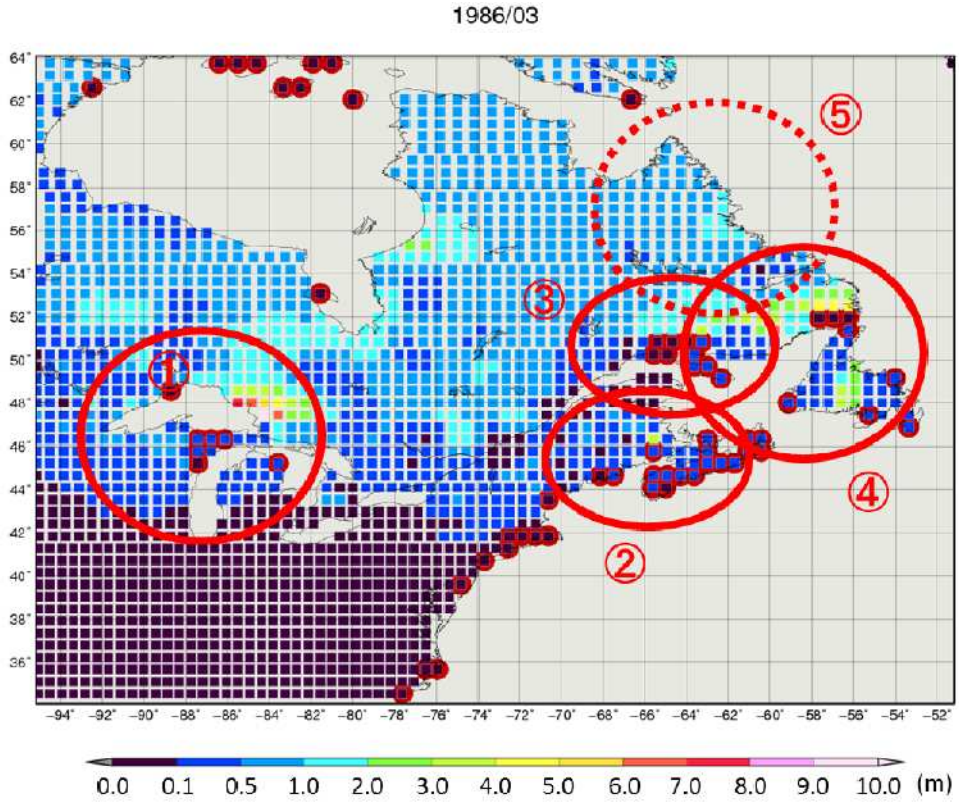

Fig. 1.8. Areas shown with unrealistically deep snow in northeastern North America for March 1986.

Shading, red dots and red circles are as per Fig. 1.1. Dotted red circles indicate areas where snow is shown as being unrealistically deep due to an error in the handing of coastal-area snow depth observation data.

Table 1.8. Periods during which a significant impact is seen in northeastern North America.

Area	Period of significant impact (boreal winter only)
1	1958 to 1990/1991, 1995/1996 to 1998/1999, 2003/2004 to 2005/2006, 2013/2014
2	1977/1978, 1980/1981, 1982/1983 to 1986/1987, 1992/1993, 1993/1994
3	1977/1978, 2002/2003 to 2005/2006, 2013/2014, 2014/2015
4	1977/1978, 1979/1980 to 1990/1991, 1992/1993 to 1994/1995, 2005/2006, 2006/2007, 2012/2013, 2013/2014, 2015/2016
5	1977/1978, 1981/1982 to 1983/1984, 1998/1999, 2001/2002, 2002/2003, 2004/2005