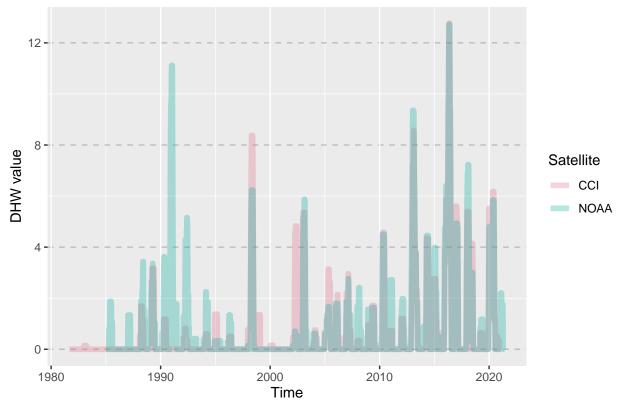
Degree Heating Week Analysis

Vanessa

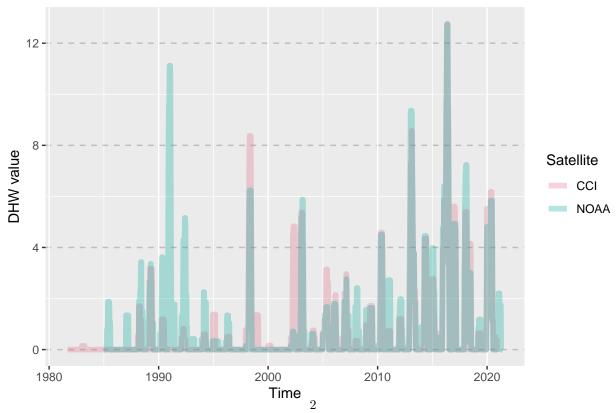
2021-09-28

Degree Heating Week Time Series Plots for CCI and NOAA data:

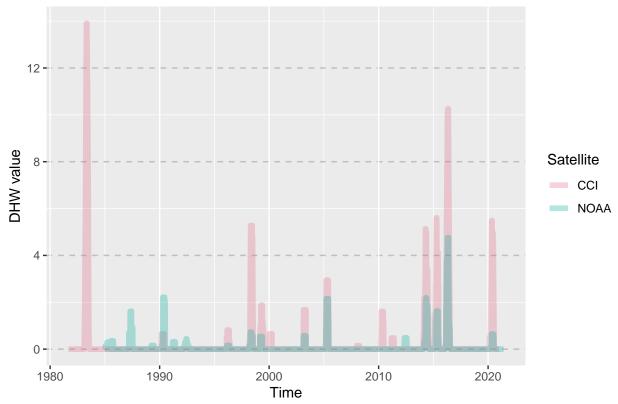
Time Series of BRS05 (-14.11, 123.54) Degree Heating Week values

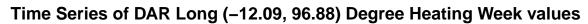


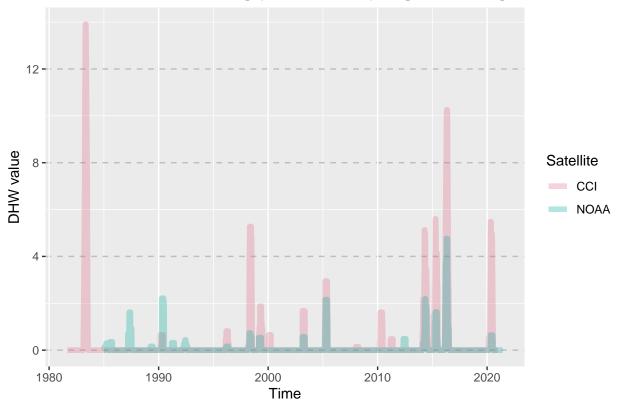
Time Series of BRS07 (-14.12, 123.55) Degree Heating Week values



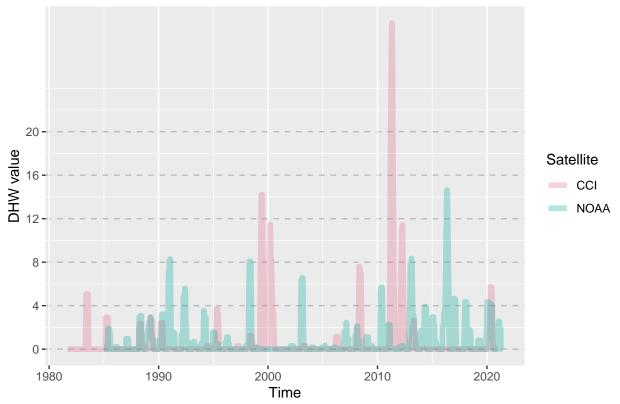


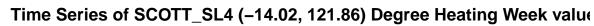


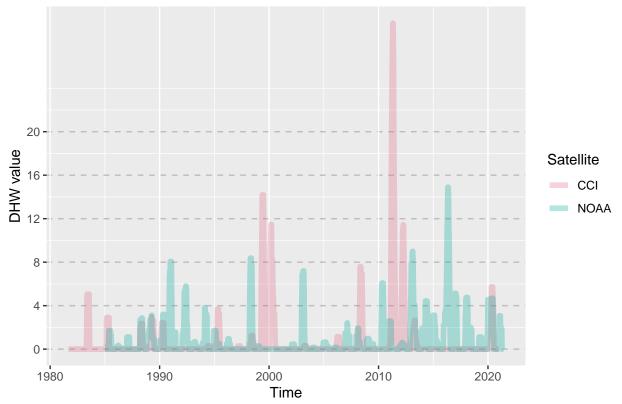




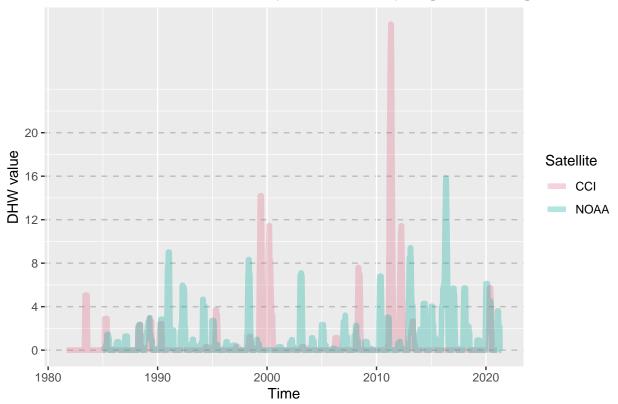




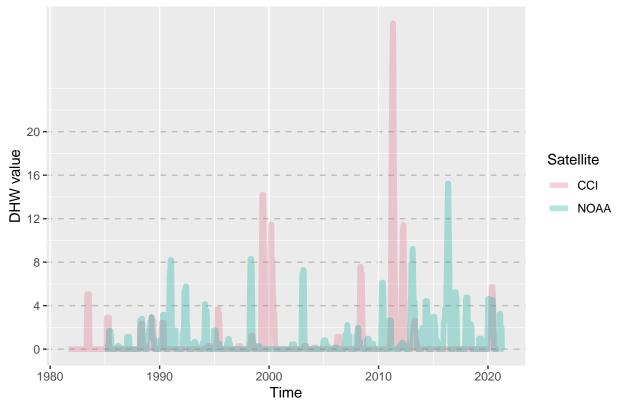


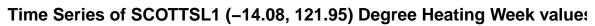


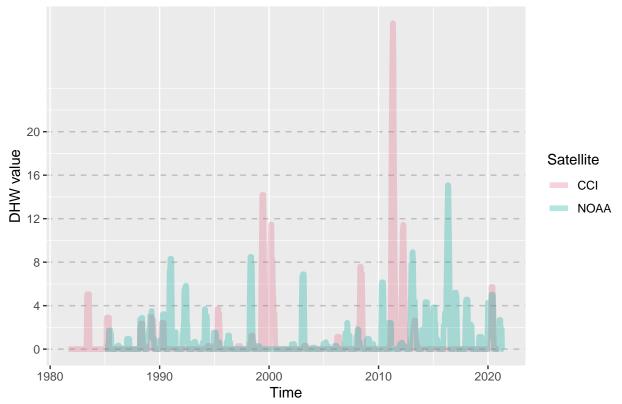


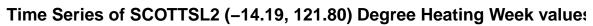


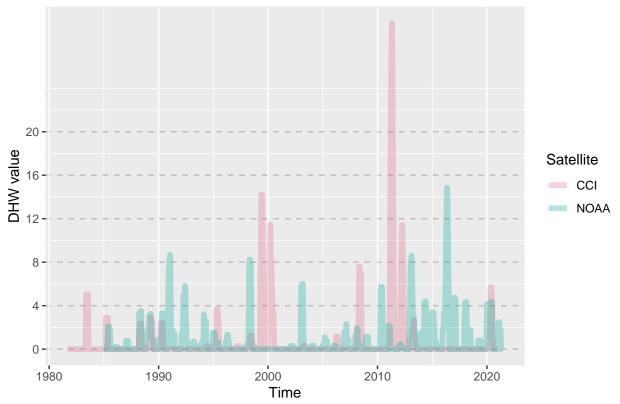


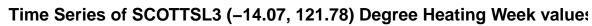


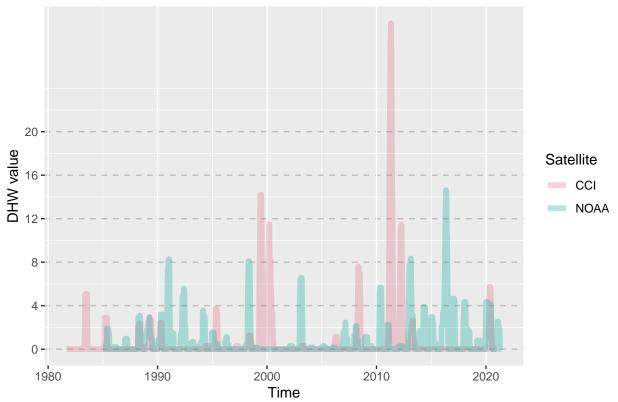


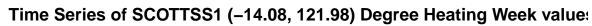


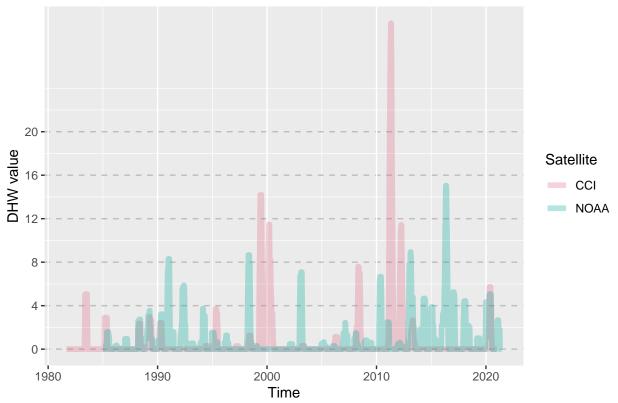


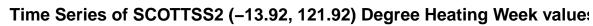


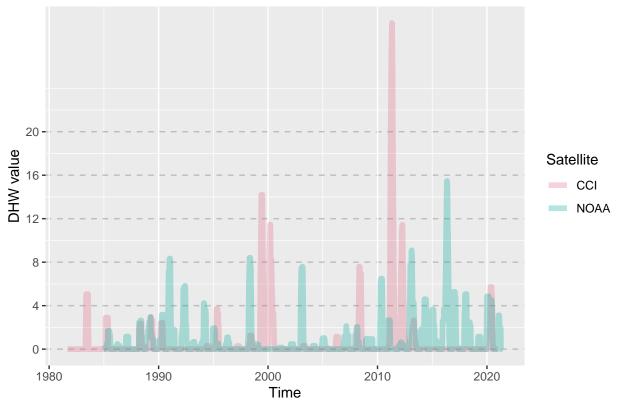




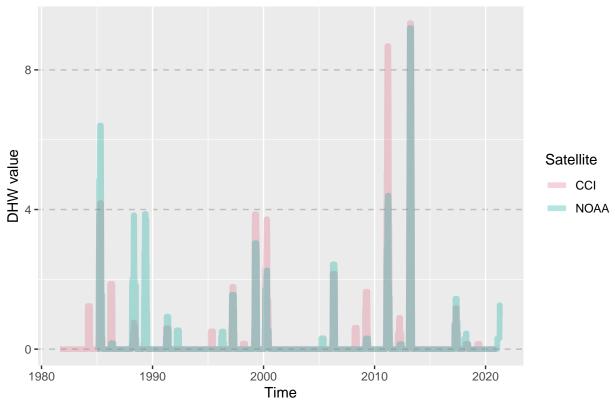


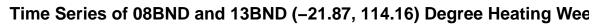


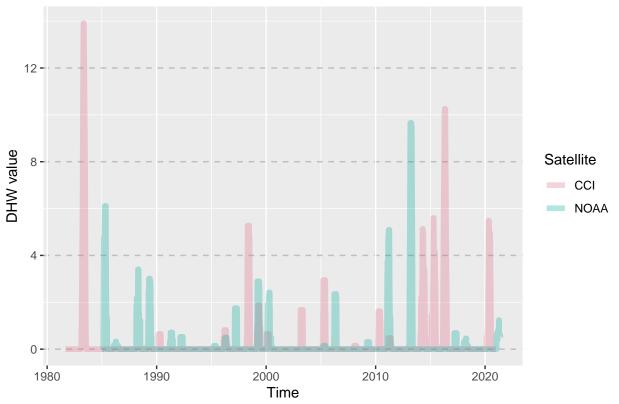


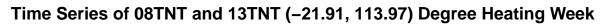


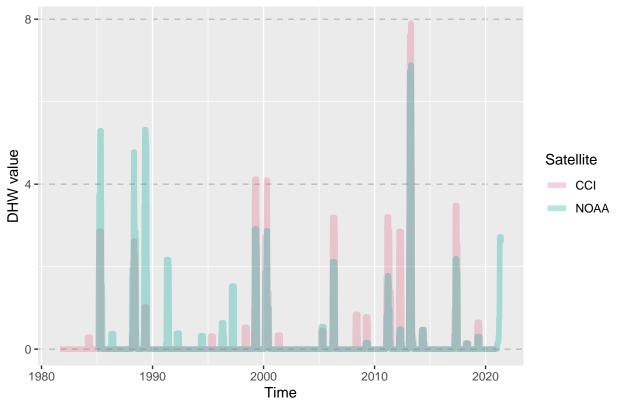




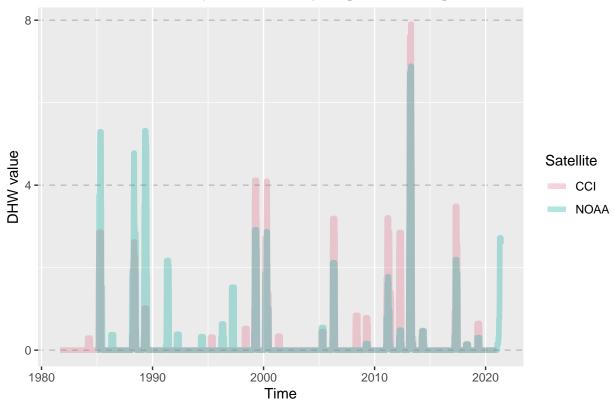




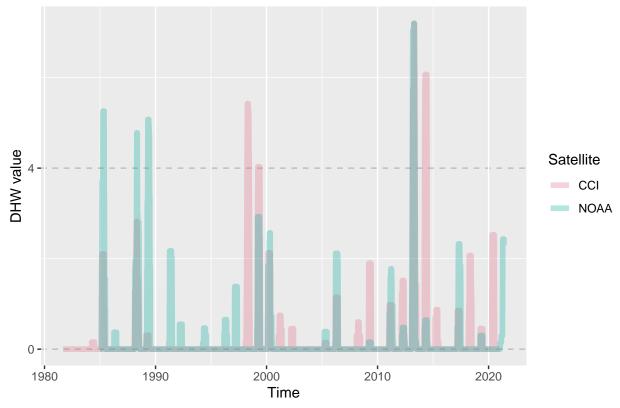




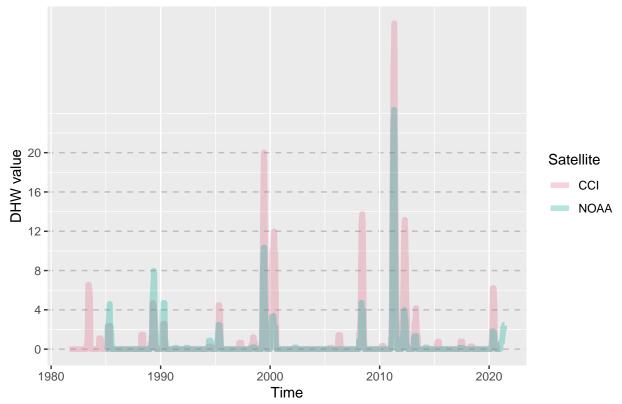


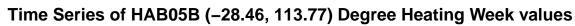


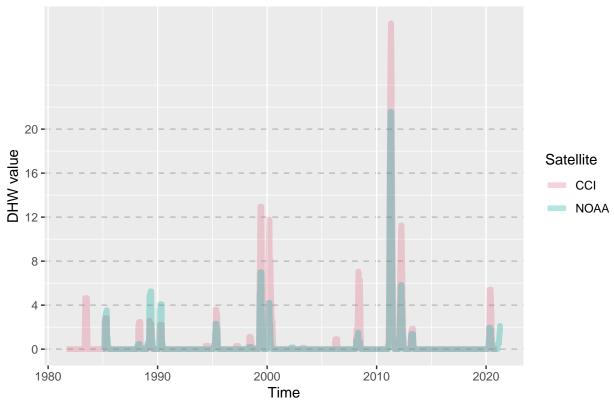




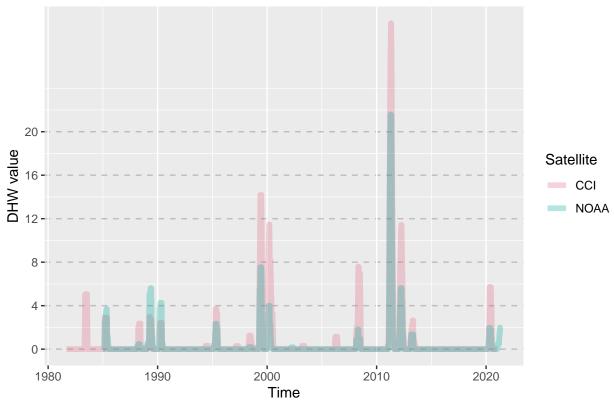




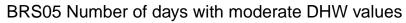


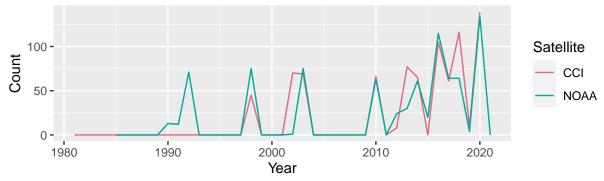






$BRS05\ Yearly\ Sum$ of Moderate and High DHW Values in CCI and NOAA data





BRS05 Number of days with high DHW values

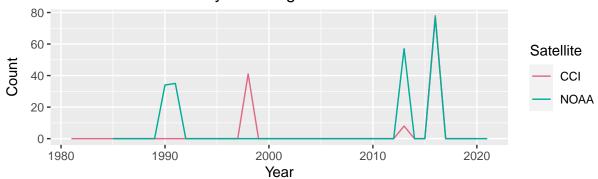


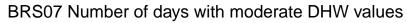
Table 1: Number of Days with moderate Degree Heating Week values

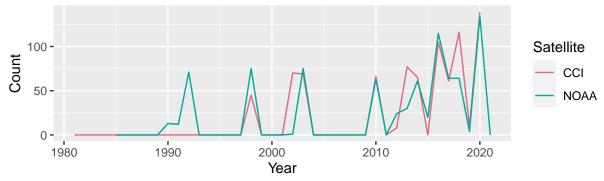
Year 2020 2018	CCI_DHW4 139	Year	NOAA_DHW4
	120		
2018	139	2020	134
	116	2016	115
2016	105	1998	75
2013	77	2003	75
2002	70	1992	71
2003	69	2017	64
2010	66	2018	64
2014	65	2010	63
2017	61	2014	61
1998	45	2013	30
2019	9	2012	24
2012	8	2015	20
1981	0	1990	13
1982	0	1991	12
1983	0	2019	4
1984	0	2002	1
1985	0	1985	0
1986	0	1986	0
1987	0	1987	0
1988	0	1988	0
1989	0	1989	0
1990	0	1993	0
1991	0	1994	0
1992	0	1995	0
1993	0	1996	0
1994	0	1997	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1999	0	2004	0
2000	0	2005	0
2001	0	2006	0
2004	0	2007	0
2005	0	2008	0
2006	0	2009	0
2007	0	2011	0
2008	0	2021	0
2009	0	1981	NA
2011	0	1982	NA
2015	0	1983	NA
2021	NA	1984	NA

Table 2: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
$\frac{1001}{2016}$	78	$\frac{1001}{2016}$	77
$\frac{2010}{1998}$	41	$\frac{2010}{2013}$	57
$\frac{1998}{2013}$	8	$\frac{2013}{1991}$	35
$\frac{2013}{1981}$	0	$\frac{1991}{1990}$	34
$\frac{1981}{1982}$	0	$\frac{1990}{1985}$	0
$\frac{1982}{1983}$	0	$\frac{1985}{1986}$	0
$\frac{1983}{1984}$	0	$\frac{1980}{1987}$	0
$\frac{1984}{1985}$	0	$\frac{1987}{1988}$	0
$\frac{1985}{1986}$	0	$\frac{1989}{1989}$	0
$\frac{1980}{1987}$	0	$\frac{1989}{1992}$	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1998	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2011	0	2017	0
2012	0	2018	0
2014	0	2019	0
2015	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
			1

BRS07 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





BRS07 Number of days with high DHW values

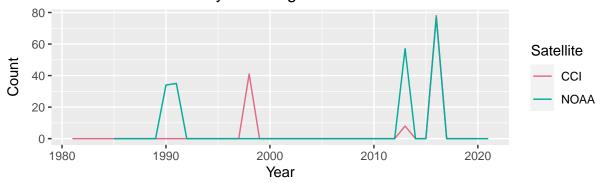


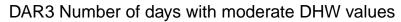
Table 3: Number of Days with moderate Degree Heating Week values

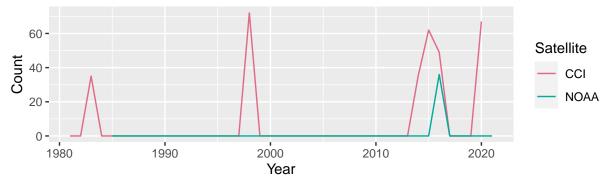
Year 2020 2018	CCI_DHW4 139	Year	NOAA_DHW4
	120		
2018	139	2020	134
	116	2016	115
2016	105	1998	75
2013	77	2003	75
2002	70	1992	71
2003	69	2017	64
2010	66	2018	64
2014	65	2010	63
2017	61	2014	61
1998	45	2013	30
2019	9	2012	24
2012	8	2015	20
1981	0	1990	13
1982	0	1991	12
1983	0	2019	4
1984	0	2002	1
1985	0	1985	0
1986	0	1986	0
1987	0	1987	0
1988	0	1988	0
1989	0	1989	0
1990	0	1993	0
1991	0	1994	0
1992	0	1995	0
1993	0	1996	0
1994	0	1997	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1999	0	2004	0
2000	0	2005	0
2001	0	2006	0
2004	0	2007	0
2005	0	2008	0
2006	0	2009	0
2007	0	2011	0
2008	0	2021	0
2009	0	1981	NA
2011	0	1982	NA
2015	0	1983	NA
2021	NA	1984	NA

Table 4: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2016	78	2016	77
1998	41	2013	57
2013	8	1991	35
1981	0	1990	34
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1998	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2011	0	2017	0
2012	0	2018	0
2014	0	2019	0
2015	0	2020	0
$\frac{2013}{2017}$	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
$\frac{2020}{2021}$	NA	$\frac{1984}{1984}$	NA
	1111		1111

DAR3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





DAR3 Number of days with high DHW values

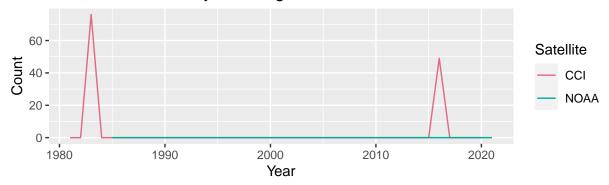


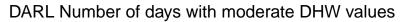
Table 5: Number of Days with moderate Degree Heating Week values

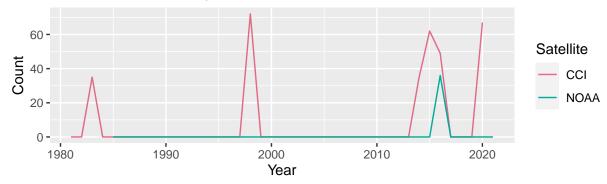
Year	CCI DHW4	Year	NOAA DHW4
1998	72	2016	36
2020	67	1985	0
2015	62	1986	0
2016	49	1987	0
1983	35	1988	0
2014	35	1989	0
1981	0	1990	0
1982	0	1991	0
1984	0	1992	0
1985	0	1993	0
1986	0	1994	0
1987	0	1995	0
1988	0	1996	0
1989	0	1997	0
1990	0	1998	0
1991	0	1999	0
1992	0	2000	0
1993	0	2001	0
1994	0	2002	0
1995	0	2003	0
1996	0	2004	0
1997	0	2005	0
1999	0	2006	0
2000	0	2007	0
2001	0	2008	0
2002	0	2009	0
2003	0	2010	0
2004	0	2011	0
2005	0	2012	0
2006	0	2013	0
2007	0	2014	0
2008	0	2015	0
2009	0	2017	0
2010	0	2018	0
2011	0	2019	0
2012	0	2020	0
2013	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 6: Number of Days with high Degree Heating Week values

3.7	COL DITTIO	3.7	NOAA DIIII
Year	CCI_DHW8	Year	NOAA_DHW8
1983	76	1985	0
2016	49	1986	0
1981	0	1987	0
1982	0	1988	0
1984	0	1989	0
1985	0	1990	0
1986	0	1991	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1998	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1998	0	2003	0
1999	0	2004	0
2000	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2011	0
2007	0	2012	0
2008	0	2013	0
2009	0	2014	0
2010	0	2015	0
2011	0	2016	0
2012	0	2017	0
2013	0	2018	0
2014	0	2019	0
2015	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
			1111

DAR Long Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





DARL Number of days with high DHW values

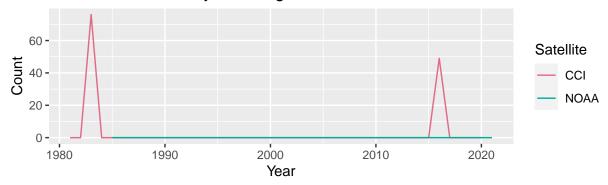


Table 7: Number of Days with moderate Degree Heating Week values

Year	CCI DHW4	Year	NOAA DHW4
1998	72	2016	36
2020	67	1985	0
2015	62	1986	0
2016	49	1987	0
1983	35	1988	0
2014	35	1989	0
1981	0	1990	0
1982	0	1991	0
1984	0	1992	0
1985	0	1993	0
1986	0	1994	0
1987	0	1995	0
1988	0	1996	0
1989	0	1997	0
1990	0	1998	0
1991	0	1999	0
1992	0	2000	0
1993	0	2001	0
1994	0	2002	0
1995	0	2003	0
1996	0	2004	0
1997	0	2005	0
1999	0	2006	0
2000	0	2007	0
2001	0	2008	0
2002	0	2009	0
2003	0	2010	0
2004	0	2011	0
2005	0	2012	0
2006	0	2013	0
2007	0	2014	0
2008	0	2015	0
2009	0	2017	0
2010	0	2018	0
2011	0	2019	0
2012	0	2020	0
2013	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 8: Number of Days with high Degree Heating Week values

3.7	COL DITTIO	3.7	NOAA DIIII
Year	CCI_DHW8	Year	NOAA_DHW8
1983	76	1985	0
2016	49	1986	0
1981	0	1987	0
1982	0	1988	0
1984	0	1989	0
1985	0	1990	0
1986	0	1991	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1998	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1998	0	2003	0
1999	0	2004	0
2000	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2011	0
2007	0	2012	0
2008	0	2013	0
2009	0	2014	0
2010	0	2015	0
2011	0	2016	0
2012	0	2017	0
2013	0	2018	0
2014	0	2019	0
2015	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
			1111

SCOTT_RPO_1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

SCOTT_RPO_1 Number of days with moderate DHW values 100 -75 **-**Satellite Count CCI 50 -NOAA 25 -0 -1990 2000 2020 2010 1980 Year SCOTT_RPO_1 Number of days with high DHW values 120 -Satellite Count 80 -CCI

2000

Year

2010

NOAA

2020

40 -

1980

1990

Table 9: Number of Days with moderate Degree Heating Week values

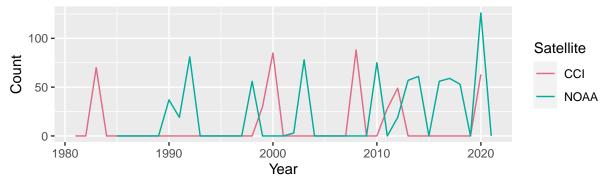
Year	CCI DHW4	Year	NOAA DHW4
2008	88	2020	101
2000	85	1992	79
1983	70	2003	77
2020	63	2010	74
2012	49	2013	67
1999	30	1998	56
2011	28	2017	56
1981	0	2016	53
1982	0	2018	51
1984	0	1990	38
1985	0	2012	16
1986	0	1991	14
1987	0	2002	1
1988	0	1985	0
1989	0	1986	0
1990	0	1987	0
1991	0	1988	0
1992	0	1989	0
1993	0	1993	0
1994	0	1994	0
1995	0	1995	0
1996	0	1996	0
1997	0	1997	0
1998	0	1999	0
2001	0	2000	0
2002	0	2001	0
2003	0	2004	0
2004	0	2005	0
2005	0	2006	0
2006	0	2007	0
2007	0	2008	0
2009	0	2009	0
2010	0	2011	0
2013	0	_2014	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 10: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	125	2016	83
1999	76	1998	29
2012	59	1991	27
2000	55	2013	9
1981	0	1990	6
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
2021		1001	1111

SCOTT_SL4 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

SCOTT_SL4 Number of days with moderate DHW values



SCOTT_SL4 Number of days with high DHW values

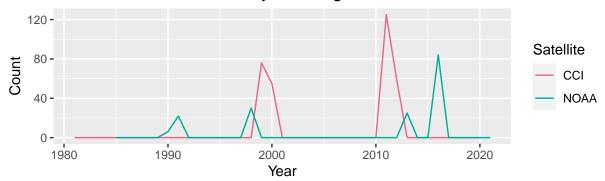


Table 11: Number of Days with moderate Degree Heating Week values

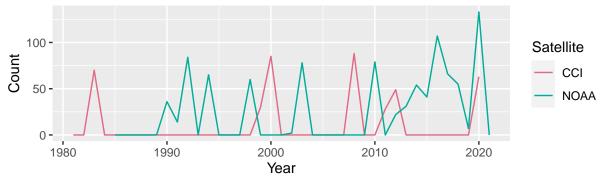
Year	CCI DHW4	Year	NOAA DHW4
2008	88	2020	126
2000	85	1992	81
1983	70	2003	78
2020	63	2010	75
2012	49	2014	61
1999	30	2017	59
2011	28	2013	57
1981	0	1998	56
1982	0	2016	56
1984	0	2018	53
1985	0	1990	37
1986	0	1991	19
1987	0	2012	19
1988	0	2002	3
1989	0	1985	0
1990	0	1986	0
1991	0	1987	0
1992	0	1988	0
1993	0	1989	0
1994	0	1993	0
1995	0	1994	0
1996	0	1995	0
1997	0	1996	0
1998	0	1997	0
2001	0	1999	0
2002	0	2000	0
2003	0	2001	0
2004	0	2004	0
2005	0	2005	0
2006	0	2006	0
2007	0	2007	0
2009	0	2008	0
2010	0	2009	0
2013	0	2011	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 12: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	125	2016	84
1999	76	1998	30
2012	59	2013	25
2000	55	1991	22
1981	0	1990	6
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTT_SS3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTT_SS3 Number of days with high DHW values

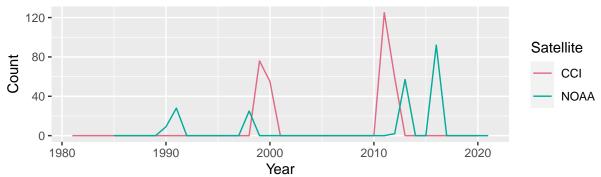


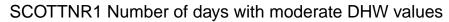
Table 13: Number of Days with moderate Degree Heating Week values $\,$

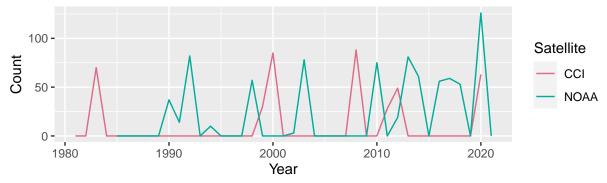
2008 88 2020 133 2000 85 2016 107 1983 70 1992 84 2020 63 2010 79 2012 49 2003 78 1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0	Year	CCI DHW4	Year	NOAA DHW4
2000 85 2016 107 1983 70 1992 84 2020 63 2010 79 2012 49 2003 78 1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1989 0				
1983 70 1992 84 2020 63 2010 79 2012 49 2003 78 1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2019 7 1991 0 2019 7 1991 0 2019 7 1991 0 2019 7 1991 0 2019 7 1991 0 1985 0 <t< td=""><td></td><td></td><td></td><td></td></t<>				
2020 63 2010 79 2012 49 2003 78 1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0				
2012 49 2003 78 1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1997 0 1993 0 2001 0 1995 0				
1999 30 2017 66 2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1985 0 1994 0 1987 0 1995 0 1988 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0				
2011 28 1994 65 1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1985 0 1994 0 1987 0 1995 0 1988 0 1996 0 1993 0 1997 0 1993 0 2001 0 1995 0 2002 0 1997 0 2003 0 1997 0				
1981 0 1998 60 1982 0 2018 55 1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1985 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0				
1984 0 2014 54 1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 <			1998	60
1985 0 2015 41 1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 2001 0 1996 0 2002 0 1997 0 2003 0 1996 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 <t< td=""><td>1982</td><td>0</td><td>2018</td><td>55</td></t<>	1982	0	2018	55
1986 0 1990 36 1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1991 0 2002 2 1991 0 2002 2 1991 0 2002 2 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 <td< td=""><td>1984</td><td>0</td><td>2014</td><td>54</td></td<>	1984	0	2014	54
1987 0 2013 31 1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 2001 0 1996 0 2002 0 1997 0 2003 0 1997 0 2004 0 2000 0 2003 0 1997 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0	1985	0	2015	41
1988 0 2012 22 1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 2001 0 1995 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2006 0 2013 0 2008 0 2014 0 2009 0 2	1986	0	1990	36
1989 0 1991 14 1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2009 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 20	1987	0	2013	31
1990 0 2019 7 1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 2001 0 1995 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2006 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 201	1988	0	2012	22
1991 0 2002 2 1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2006 0 2011 0 2008 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 201	1989	0	1991	14
1992 0 1985 0 1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2015 0 2011 0 2016 0 2021 0 201	1990	0	2019	7
1993 0 1986 0 1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2	1991	0	2002	2
1994 0 1987 0 1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2009 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1992	0	1985	0
1995 0 1988 0 1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2009 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1993	0	1986	0
1996 0 1989 0 1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2006 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2015 0 2011 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1994	0	1987	0
1997 0 1993 0 1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2009 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1995	0	1988	0
1998 0 1995 0 2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1996	0	1989	0
2001 0 1996 0 2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1997	0	1993	0
2002 0 1997 0 2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1998	0	1995	0
2003 0 1999 0 2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2001	0	1996	0
2004 0 2000 0 2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2002	0	1997	0
2005 0 2001 0 2006 0 2004 0 2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2003	0	1999	0
2006 0 2004 0 2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2004	0	2000	0
2007 0 2005 0 2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2005	0	2001	0
2009 0 2006 0 2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2006	0	2004	0
2010 0 2007 0 2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2007	0	2005	0
2013 0 2008 0 2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2009	0	2006	0
2014 0 2009 0 2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0	2007	0
2015 0 2011 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2013	0	2008	0
2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2014	0		0
2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2018 0 1982 NA 2019 0 1983 NA				
2019 0 1983 NA		0		
		0		
2021 NA 1984 NA				l
	2021	NA	1984	NA

Table 14: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	125	2016	92
1999	76	2013	57
2012	59	1991	28
2000	55	1998	25
1981	0	1990	9
1982	0	2012	2
1983	0	1985	0
1984	0	1986	0
1985	0	1987	0
1986	0	1988	0
1987	0	1989	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1998	0	2003	0
2001	0	2004	0
2002	0	2005	0
2003	0	2006	0
2004	0	2007	0
2005	0	2008	0
2006	0	2009	0
2007	0	2010	0
2008	0	2011	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTTNR1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTNR1 Number of days with high DHW values

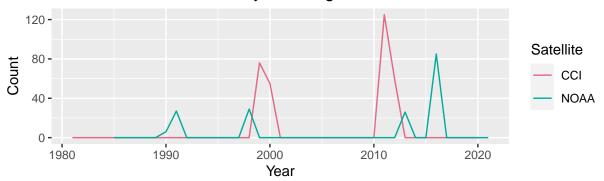


Table 15: Number of Days with moderate Degree Heating Week values

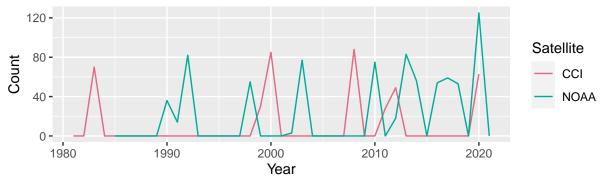
Year	CCI DHW4	Year	NOAA DHW4
2008	88	$\frac{1001}{2020}$	126
2000	85	1992	82
1983	70	2013	81
2020	63	2003	78
2012	49	2010	75
1999	30	2014	61
2011	28	2017	59
1981	0	1998	57
1982	0	2016	56
1984	0	2018	53
1985	0	1990	37
1986	0	2012	19
1987	0	1991	14
1988	0	1994	10
1989	0	2002	3
1990	0	1985	0
1991	0	1986	0
1992	0	1987	0
1993	0	1988	0
1994	0	1989	0
1995	0	1993	0
1996	0	1995	0
1997	0	1996	0
1998	0	1997	0
2001	0	1999	0
2002	0	2000	0
2003	0	2001	0
2004	0	2004	0
2005	0	2005	0
2006	0	2006	0
2007	0	2007	0
2009	0	2008	0
2010	0	2009	0
2013	0	2011	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 16: Number of Days with high Degree Heating Week values

Year 0 2011 1999 2012	$\frac{-}{125}$	Year 2016	
	76		
2012	10	1998	29
	59	1991	27
2000	55	2013	26
1981	0	1990	6
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTTSL1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSL1 Number of days with high DHW values

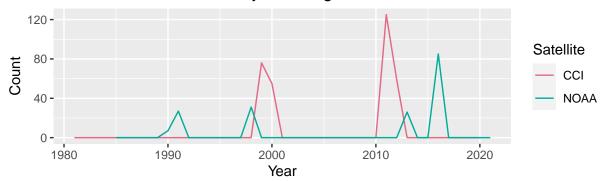


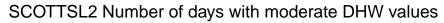
Table 17: Number of Days with moderate Degree Heating Week values

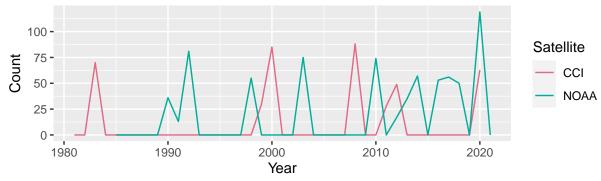
Year	CCI DHW4	Year	NOAA DHW4
2008	88	$\frac{1001}{2020}$	125
2000	85	2013	83
1983	70	1992	82
2020	63	2003	77
2012	49	2010	75
1999	30	2017	59
2011	28	2014	56
1981	0	1998	55
1982	0	2016	54
1984	0	2018	53
1985	0	1990	36
1986	0	2012	18
1987	0	1991	14
1988	0	2002	3
1989	0	1985	0
1990	0	1986	0
1991	0	1987	0
1992	0	1988	0
1993	0	1989	0
1994	0	1993	0
1995	0	1994	0
1996	0	1995	0
1997	0	1996	0
1998	0	1997	0
2001	0	1999	0
2002	0	2000	0
2003	0	2001	0
2004	0	2004	0
2005	0	2005	0
2006	0	2006	0
2007	0	2007	0
2009	0	2008	0
2010	0	2009	0
2013	0	2011	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 18: Number of Days with high Degree Heating Week values

Year 2011 1999	CCI_DHW8	Year	NOAA_DHW8
	107		
1999	125	2016	85
1000	76	1998	31
2012	59	1991	27
2000	55	2013	26
1981	0	1990	7
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTTSL2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSL2 Number of days with high DHW values

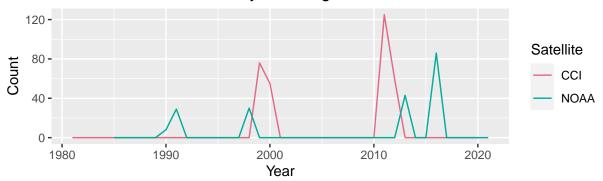


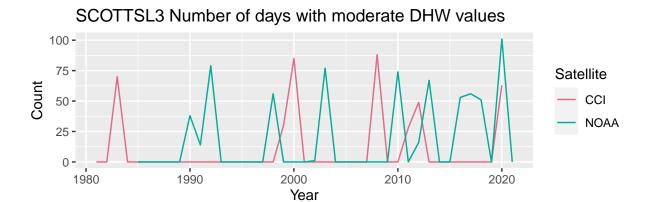
Table 19: Number of Days with moderate Degree Heating Week values $\,$

2008 88 2020 119 2000 85 1992 81 1983 70 2003 75 2020 63 2010 74 2012 49 2014 57 1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1988 0 1993 0 1993 0 1994 0 1994 0	Year	CCI DHW4	Year	NOAA DHW4
2000 85 1992 81 1983 70 2003 75 2020 63 2010 74 2012 49 2014 57 1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 <t< td=""><td></td><td></td><td></td><td></td></t<>				
1983 70 2003 75 2020 63 2010 74 2012 49 2014 57 1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1995 0 1995 0 1996 0				
2020 63 2010 74 2012 49 2014 57 1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0				
2012 49 2014 57 1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0 1998 0 1999 0				
1999 30 2017 56 2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0				-
2011 28 1998 55 1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0				
1981 0 2016 53 1982 0 2018 50 1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 <				
1984 0 1990 36 1985 0 2013 35 1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 <td< td=""><td></td><td></td><td></td><td></td></td<>				
1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2008 0 2010 0 2008 0 2	1982	0	2018	50
1986 0 2012 17 1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2005 0 2007 0 2008 0 2	1984	0	1990	36
1987 0 1991 13 1988 0 1985 0 1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 20	1985	0	2013	35
1988 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2008 0 2010 0 2009 0 2013 0 2015 0 2014 0 2015 0 2015 0 2019 0 201	1986	0	2012	17
1989 0 1986 0 1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2005 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 201	1987	0	1991	13
1990 0 1987 0 1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2005 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 201	1988	0	1985	0
1991 0 1988 0 1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 201	1989	0	1986	0
1992 0 1989 0 1993 0 1993 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 201	1990	0	1987	0
1993 0 1994 0 1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 20	1991	0	1988	0
1994 0 1994 0 1995 0 1995 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2	1992	0	1989	0
1995 0 1996 0 1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1993	0	1993	0
1996 0 1996 0 1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2019 0 1982 NA 2019 0 1983 NA	1994	0		0
1997 0 1997 0 1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1995	0	1995	0
1998 0 1999 0 2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1996	0	1996	0
2001 0 2000 0 2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1997	0	1997	0
2002 0 2001 0 2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1998	0	1999	0
2003 0 2002 0 2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2004 0 2004 0 2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2002	0	2001	0
2005 0 2005 0 2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2003	0	2002	0
2006 0 2006 0 2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2004	0	2004	0
2007 0 2007 0 2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2005	0	2005	0
2009 0 2008 0 2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2006	0	2006	0
2010 0 2009 0 2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2007	0		0
2013 0 2011 0 2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0	2008	0
2014 0 2015 0 2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2015 0 2019 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				_
2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				0
2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				
2018 0 1982 NA 2019 0 1983 NA				
2019 0 1983 NA				
2021 NA 1984 NA				
	2021	NA_	1984	NA

Table 20: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	125	2016	86
1999	76	2013	43
2012	59	1998	30
2000	55	1991	29
1981	0	1990	8
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
	1		1

SCOTTSL3 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



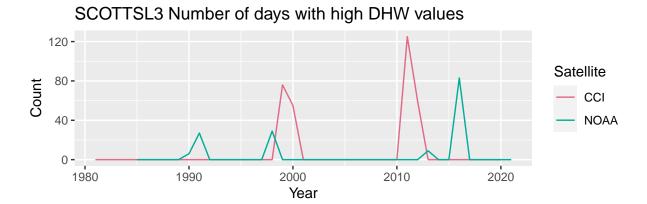


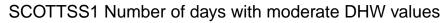
Table 21: Number of Days with moderate Degree Heating Week values

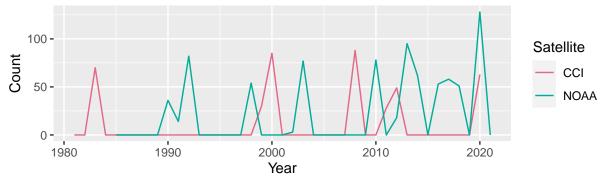
			77011 =
Year	CCI_DHW4	Year	NOAA_DHW4
2008	88	2020	101
2000	85	1992	79
1983	70	2003	77
2020	63	2010	74
2012	49	2013	67
1999	30	1998	56
2011	28	2017	56
1981	0	2016	53
1982	0	2018	51
1984	0	1990	38
1985	0	2012	16
1986	0	1991	14
1987	0	2002	1
1988	0	1985	0
1989	0	1986	0
1990	0	1987	0
1991	0	1988	0
1992	0	1989	0
1993	0	1993	0
1994	0	1994	0
1995	0	1995	0
1996	0	1996	0
1997	0	1997	0
1998	0	1999	0
2001	0	2000	0
2002	0	2001	0
2003	0	2004	0
2004	0	2005	0
2005	0	2006	0
2006	0	2007	0
2007	0	2008	0
2009	0	2009	0
2010	0	2011	0
2013	0	2014	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 22: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
2011	125	2016	83
1999	76	1998	29
2012	59	1991	27
2000	55	2013	9
1981	0	1990	6
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTTSS1 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSS1 Number of days with high DHW values

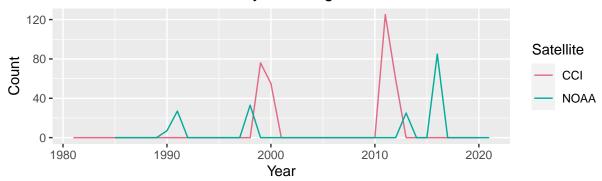


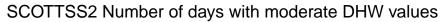
Table 23: Number of Days with moderate Degree Heating Week values $\,$

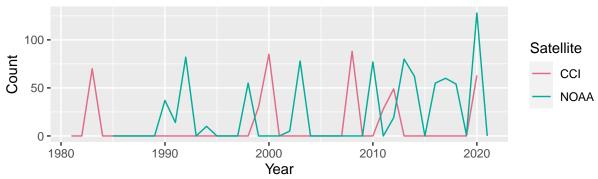
Year	CCI DHW4	Year	NOAA DHW4
2008	88	$\frac{1001}{2020}$	128
2000	85	2013	95
1983	70	1992	82
2020	63	2010	78
2012	49	2003	77
1999	30	2014	62
2011	28	2017	58
1981	0	1998	54
1982	0	2016	53
1984	0	2018	51
1985	0	1990	36
1986	0	2012	18
1987	0	1991	14
1988	0	2002	3
1989	0	1985	0
1990	0	1986	0
1991	0	1987	0
1992	0	1988	0
1993	0	1989	0
1994	0	1993	0
1995	0	1994	0
1996	0	1995	0
1997	0	1996	0
1998	0	1997	0
2001	0	1999	0
2002	0	2000	0
2003	0	2001	0
2004	0	2004	0
2005	0	2005	0
2006	0	2006	0
2007	0	2007	0
2009	0	2008	0
2010	0	2009	0
2013	0	2011	0
2014	0	2015	0
2015	0	2019	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 24: Number of Days with high Degree Heating Week values

2011	105		
	125	2016	85
1999	76	1998	33
2012	59	1991	27
2000	55	2013	25
1981	0	1990	7
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

SCOTTSS2 Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





SCOTTSS2 Number of days with high DHW values

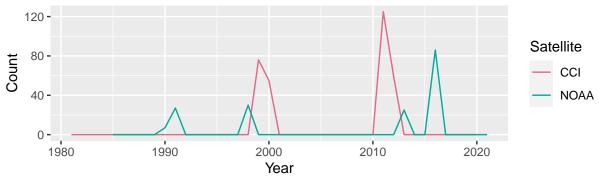


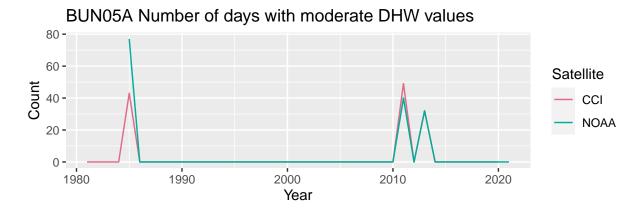
Table 25: Number of Days with moderate Degree Heating Week values $\,$

Year	CCI DHW4	Year	NOAA DHW4
2008	88	2020	128
2000	85	1992	82
1983	70	2013	80
2020	63	2003	78
2012	49	2010	77
1999	30	2014	62
2011	28	2017	60
1981	0	1998	55
1982	0	2016	55
1984	0	2018	54
1985	0	1990	37
1986	0	2012	19
1987	0	1991	14
1988	0	1994	10
1989	0	2002	5
1990	0	2019	1
1991	0	1985	0
1992	0	1986	0
1993	0	1987	0
1994	0	1988	0
1995	0	1989	0
1996	0	1993	0
1997	0	1995	0
1998	0	1996	0
2001	0	1997	0
2002	0	1999	0
2003	0	2000	0
2004	0	2001	0
2005	0	2004	0
2006	0	2005	0
2007	0	2006	0
2009	0	2007	0
2010	0	2008	0
2013	0	2009	0
2014	0	2011	0
2015	0	2015	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 26: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
2011	125	2016	86
1999	76	1998	30
2012	59	1991	27
2000	55	2013	25
1981	0	1990	7
1982	0	1985	0
1983	0	1986	0
1984	0	1987	0
1985	0	1988	0
1986	0	1989	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

BUN05A Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



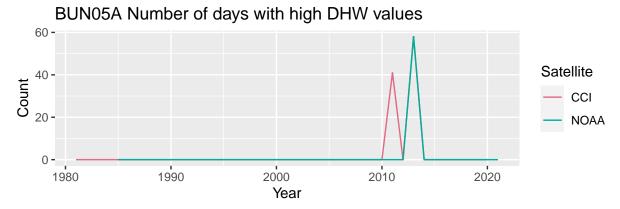


Table 27: Number of Days with moderate Degree Heating Week values

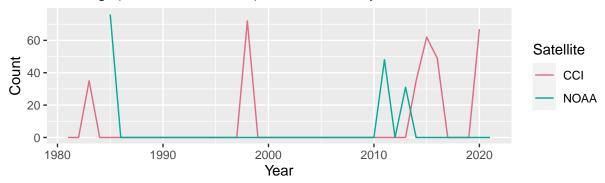
Year	CCI_DHW4	Year	NOAA_DHW4
2011	49	1985	77
1985	43	2011	40
2013	32	2013	32
1981	0	1986	0
1982	0	1987	0
1983	0	1988	0
1984	0	1989	0
1986	0	1990	0
1987	0	1991	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1998	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1998	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2012	0
2008	0	2014	0
2009	0	2015	0
2010	0	2016	0
2012	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA
	1		<u> </u>

Table 28: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
2013	58	2013	58
2011	41	1985	0
1981	0	1986	0
1982	0	1987	0
1983	0	1988	0
1984	0	1989	0
1985	0	1990	0
1986	0	1991	0
1987	0	1992	0
1988	0	1993	0
1989	0	1994	0
1990	0	1995	0
1991	0	1996	0
1992	0	1997	0
1993	0	1998	0
1994	0	1999	0
1995	0	2000	0
1996	0	2001	0
1997	0	2002	0
1998	0	2003	0
1999	0	2004	0
2000	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2011	0
2007	0	2012	0
2008	0	2014	0
2009	0	2015	0
2010	0	2016	0
2012	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

Bundegi Yearly Sum of Moderate and High DHW Values in CCI and NOAA data

Bundegi (13BND & 08BND) Number of days with moderate DHW values



Bundegi (13BND & 08BND) Number of days with high DHW values

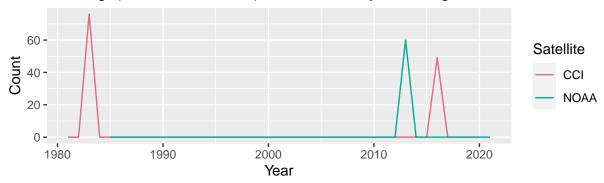


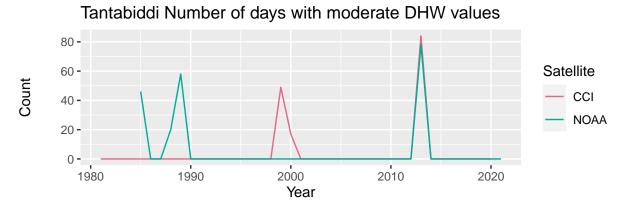
Table 29: Number of Days with moderate Degree Heating Week values $\,$

Year	CCI DHW4	Year	NOAA DHW4
1998	72	1985	76
2020	67	$\frac{2011}{2011}$	48
2015	62	2013	31
2016	49	1986	0
1983	35	1987	0
2014	35	1988	0
1981	0	1989	0
1982	0	1990	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1996	0	2003	0
1997	0	2004	0
1999	0	2005	0
2000	0	2006	0
2001	0	2007	0
2002	0	2008	0
2003	0	2009	0
2004	0	2010	0
2005	0	2012	0
2006	0	2014	0
2007	0	2015	0
2008	0	2016	0
2009	0	2017	0
2010	0	2018	0
2011	0	2019	0
2012	0	2020	0
2013	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 30: Number of Days with high Degree Heating Week values $\,$

Year	CCI DHW8	Year	NOAA DHW8
1983	76	2013	60
2016	49	1985	0
1981	0	1986	0
1982	0	1987	0
1984	0	1988	0
1985	0	1989	0
1986	0	1990	0
1987	0	1991	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1998	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1998	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2011	0	2016	0
2012	0	2017	0
2013	0	2018	0
2014	0	2019	0
2015	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

Tantabiddi Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



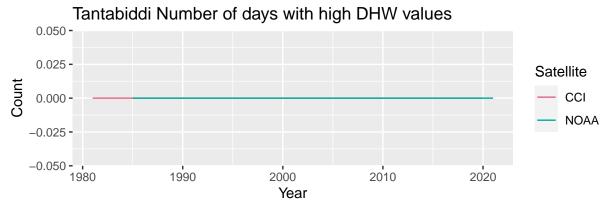


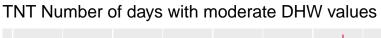
Table 31: Number of Days with moderate Degree Heating Week values $\,$

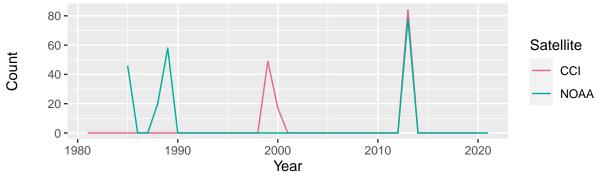
- T.	COL BITTIES	- T 7	31011 57777
Year	CCI_DHW4	Year	NOAA_DHW4
2013	84	2013	78
1999	49	1989	58
2000	17	1985	46
1981	0	1988	20
1982	0	1986	0
1983	0	1987	0
1984	0	1990	0
1985	0	1991	0
1986	0	1992	0
1987	0	1993	0
1988	0	1994	0
1989	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1998	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2011	0	2016	0
2012	0	2017	0
2014	0	2018	0
2015	0	$\frac{2019}{2019}$	0
2016	0	2020	0
$\frac{2010}{2017}$	0	$\frac{2020}{2021}$	0
$\frac{2017}{2018}$	0	$\frac{2021}{1981}$	NA
$\frac{2010}{2019}$	0	$\frac{1301}{1982}$	NA
$\frac{2013}{2020}$	0	$\frac{1362}{1983}$	NA
$\frac{2020}{2021}$	NA	$\frac{1363}{1984}$	NA
	INA	1304	IVA

Table 32: Number of Days with high Degree Heating Week values $\,$

Year	CCI_DHW8	Year	NOAA_DHW8
1981	0	1985	0
1982	0	1986	0
1983	0	1987	0
1984	0	1988	0
1985	0	1989	0
1986	0	1990	0
1987	0	1991	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1998	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1998	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2013	0
2010	0	2014	0
2011	0	2015	0
2012	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

TNT Yearly Sum of Moderate and High DHW Values in CCI and NOAA data





TNT Number of days with high DHW values

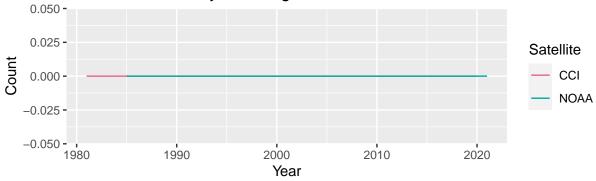


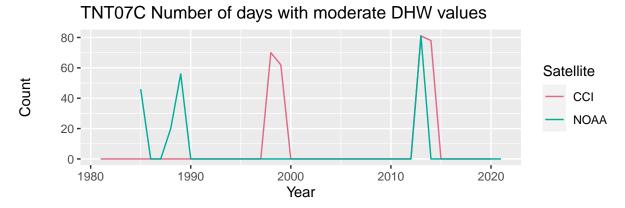
Table 33: Number of Days with moderate Degree Heating Week values $\,$

Year	CCI DHW4	Year	NOAA DHW4
2013	84	$\frac{1001}{2013}$	78
1999	49	1989	58
2000	17	1985	46
1981	0	1988	20
1982	0	1986	0
1983	0	1987	0
1984	0	1990	0
1985	0	1991	0
1986	0	1992	0
1987	0	1993	0
1988	0	1994	0
1989	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1998	0
1993	0	1999	0
1994	0	2000	0
1995	0	2001	0
1996	0	2002	0
1997	0	2003	0
1998	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2014	0
2010	0	2015	0
2011	0	2016	0
2012	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

Table 34: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
1981	0	1985	0
1982	0	1986	0
1983	0	1987	0
1984	0	1988	0
1985	0	1989	0
1986	0	1990	0
1987	0	1991	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1998	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1998	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2013	0
2010	0	2014	0
2011	0	2015	0
2012	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

TNT07C Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



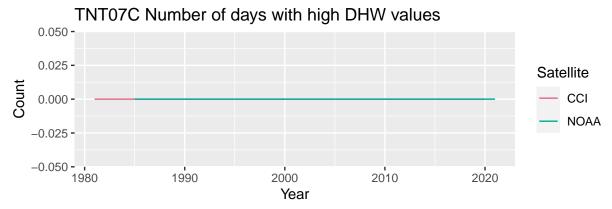


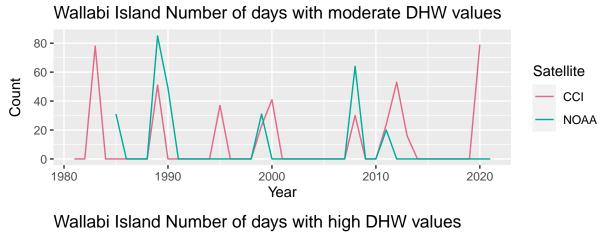
Table 35: Number of Days with moderate Degree Heating Week values $\,$

Year	CCI DHW4	Year	NOAA DHW4
2013	81	2013	81
2014	78	1989	56
1998	70	1985	46
1999	62	1988	20
1981	0	1986	0
1982	0	1987	0
1983	0	1990	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1996	0	2003	0
1997	0	2004	0
2000	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2011	0
2007	0	2012	0
2008	0	2014	0
2009	0	2015	0
2010	0	2016	0
2011	0	2017	0
2012	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

Table 36: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
1981	0	1985	0
1982	0	1986	0
1983	0	1987	0
1984	0	1988	0
1985	0	1989	0
1986	0	1990	0
1987	0	1991	0
1988	0	1992	0
1989	0	1993	0
1990	0	1994	0
1991	0	1995	0
1992	0	1996	0
1993	0	1997	0
1994	0	1998	0
1995	0	1999	0
1996	0	2000	0
1997	0	2001	0
1998	0	2002	0
1999	0	2003	0
2000	0	2004	0
2001	0	2005	0
2002	0	2006	0
2003	0	2007	0
2004	0	2008	0
2005	0	2009	0
2006	0	2010	0
2007	0	2011	0
2008	0	2012	0
2009	0	2013	0
2010	0	2014	0
2011	0	2015	0
2012	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

Wallabi Island Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



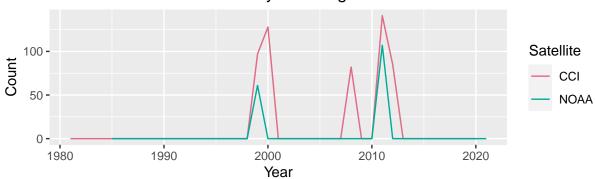


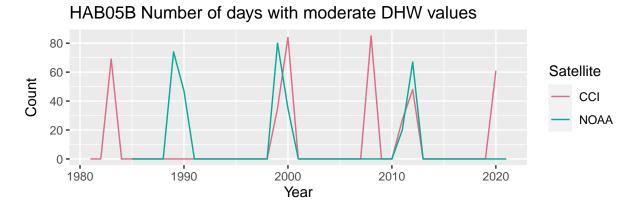
Table 37: Number of Days with moderate Degree Heating Week values $\,$

Teal CCI_BINV4 Teal NOAA_BINV4 2020 79 1989 85 1983 78 2008 64 2012 53 1990 49 1989 51 1985 31 1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0	Year	CCI DHW4	Year	NOAA DHW4
1983 78 2008 64 2012 53 1990 49 1989 51 1985 31 2000 41 1999 31 1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0				
2012 53 1990 49 1989 51 1985 31 2000 41 1999 31 1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1991 0 1992 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2002 0 1992 0 2002 0 1993 0 2003 0				
1989 51 1985 31 2000 41 1999 31 1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0				
2000 41 1999 31 1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1994 0 2004 0 1997 0 2006 0				
1995 37 2011 20 2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 <				
2008 30 1986 0 2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1997 0 2006 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 <td< td=""><td></td><td></td><td></td><td></td></td<>				
2011 24 1987 0 1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0				
1999 23 1988 0 2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1997 0 2006 0 1998 0 2007 0 2001 0 2006 0 1998 0 2007 0 2002 0 2010 0 2003 0 2012 0 2				0
2013 16 1991 0 1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 20				0
1981 0 1992 0 1982 0 1993 0 1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2004 0 2013 0 200				0
1984 0 1994 0 1985 0 1995 0 1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2004 0 2013 0 2005 0 2014 0 200		0	1992	0
1985 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2005 0 2014 0 2006 0 2015 0 200	1982	0	1993	0
1986 0 1996 0 1987 0 1997 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2007 0 2016 0 201	1984	0	1994	0
1987 0 1998 0 1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2007 0 2016 0 2010 0 2018 0 201	1985	0	1995	0
1988 0 1998 0 1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2004 0 2013 0 2005 0 2014 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 201	1986	0	1996	0
1990 0 2000 0 1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2004 0 2013 0 2005 0 2014 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2010 0 2017 0 2010 0 2018 0 2014 0 2019 0 201	1987	0	1997	0
1991 0 2001 0 1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2004 0 2013 0 2005 0 2014 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2010 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 201	1988	0	1998	0
1992 0 2002 0 1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2014 0 2019 0 2015 0 2020 0 201	1990	0	2000	0
1993 0 2003 0 1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2014 0 2019 0 2015 0 2020 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 20	1991	0	2001	0
1994 0 2004 0 1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2015 0 2020 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2	1992	0	2002	0
1996 0 2005 0 1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2010 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2015 0 2020 0 2015 0 2021 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1993	0	2003	0
1997 0 2006 0 1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1994	0	2004	0
1998 0 2007 0 2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1996	0	2005	0
2001 0 2009 0 2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1997	0	2006	0
2002 0 2010 0 2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	1998	0	2007	0
2003 0 2012 0 2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2001	0	2009	0
2004 0 2013 0 2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2002	0	2010	0
2005 0 2014 0 2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2003	0	2012	0
2006 0 2015 0 2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2004	0	2013	0
2007 0 2016 0 2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2005	0		0
2009 0 2017 0 2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2010 0 2018 0 2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2014 0 2019 0 2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2015 0 2020 0 2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA				_
2016 0 2021 0 2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA	2014	0	2019	0
2017 0 1981 NA 2018 0 1982 NA 2019 0 1983 NA		0		0
2018 0 1982 NA 2019 0 1983 NA				
2019 0 1983 NA		0		
		0		
2021 NA 1984 NA				
	2021	NA	1984	NA

Table 38: Number of Days with high Degree Heating Week values

Year	CCI_DHW8	Year	NOAA_DHW8
2011	141	2011	107
2000	128	1999	61
1999	97	1985	0
2012	85	1986	0
2008	82	1987	0
1981	0	1988	0
1982	0	1989	0
1983	0	1990	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	2000	0
1993	0	2001	0
1994	0	2002	0
1995	0	2003	0
1996	0	2004	0
1997	0	2005	0
1998	0	2006	0
2001	0	2007	0
2002	0	2008	0
2003	0	2009	0
2004	0	2010	0
2005	0	2012	0
2006	0	2013	0
2007	0	2014	0
2009	0	2015	0
2010	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

$\rm HAB05B~Yearly~Sum$ of Moderate and High DHW Values in CCI and NOAA data



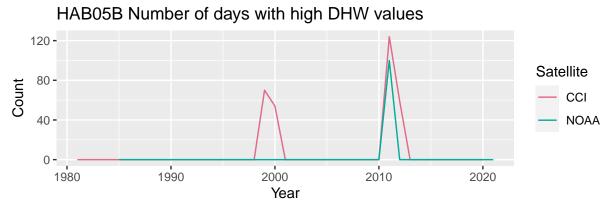


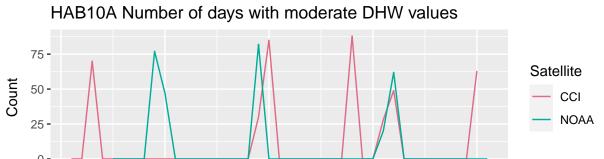
Table 39: Number of Days with moderate Degree Heating Week values $\,$

Year	CCI DHW4	Year	NOAA DHW4
2008	85	1999	80
2000	84	1989	74
1983	69	2012	67
2020	61	1990	47
2012	48	2000	35
1999	35	2011	20
2011	27	1985	0
1981	0	1986	0
1982	0	1987	0
1984	0	1988	0
1985	0	1991	0
1986	0	1992	0
1987	0	1993	0
1988	0	1994	0
1989	0	1995	0
1990	0	1996	0
1991	0	1997	0
1992	0	1998	0
1993	0	2001	0
1994	0	2002	0
1995	0	2003	0
1996	0	2004	0
1997	0	2005	0
1998	0	2006	0
2001	0	2007	0
2002	0	2008	0
2003	0	2009	0
2004	0	2010	0
2005	0	2013	0
2006	0	2014	0
2007	0	2015	0
2009	0	2016	0
2010	0	2017	0
2013	0	2018	0
2014	0	2019	0
2015	0	2020	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 40: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
2011	124	2011	100
1999	70	1985	0
2012	59	1986	0
2000	54	1987	0
1981	0	1988	0
1982	0	1989	0
1983	0	1990	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1996	0	2003	0
1997	0	2004	0
1998	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2012	0
2007	0	2013	0
2008	0	2014	0
2009	0	2015	0
2010	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA

$\rm HAB10A$ Yearly Sum of Moderate and High DHW Values in CCI and NOAA data



HAB10A Number of days with high DHW values

Year

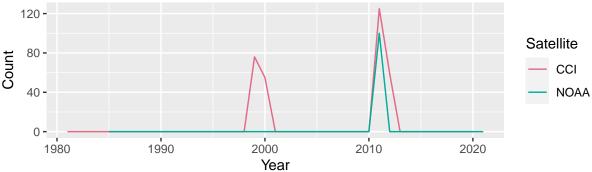


Table 41: Number of Days with moderate Degree Heating Week values

Year	CCI DHW4	Year	NOAA DHW4
2008	85	1999	82
2000	84	1989	77
1983	69	2012	62
2020	61	1990	47
2012	48	2011	20
1999	35	1985	0
2011	27	1986	0
1981	0	1987	0
1982	0	1988	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	2000	0
1993	0	2001	0
1994	0	2002	0
1995	0	2003	0
1996	0	2004	0
1997	0	2005	0
1998	0	2006	0
2001	0	2007	0
2002	0	2008	0
2003	0	2009	0
2004	0	2010	0
2005	0	2013	0
2006	0	2014	0
2007	0	2015	0
2009	0	2016	0
2010	0	2017	0
2013	0	2018	0
2014	0	2019	0
2015	0	2020	0
2016	0	2021	0
2017	0	1981	NA
2018	0	1982	NA
2019	0	1983	NA
2021	NA	1984	NA

Table 42: Number of Days with high Degree Heating Week values

Year	CCI DHW8	Year	NOAA DHW8
2011	125	2011	100
1999	76	1985	0
2012	59	1986	0
2000	55	1987	0
1981	0	1988	0
1982	0	1989	0
1983	0	1990	0
1984	0	1991	0
1985	0	1992	0
1986	0	1993	0
1987	0	1994	0
1988	0	1995	0
1989	0	1996	0
1990	0	1997	0
1991	0	1998	0
1992	0	1999	0
1993	0	2000	0
1994	0	2001	0
1995	0	2002	0
1996	0	2003	0
1997	0	2004	0
1998	0	2005	0
2001	0	2006	0
2002	0	2007	0
2003	0	2008	0
2004	0	2009	0
2005	0	2010	0
2006	0	2012	0
2007	0	2013	0
2008	0	2014	0
2009	0	2015	0
2010	0	2016	0
2013	0	2017	0
2014	0	2018	0
2015	0	2019	0
2016	0	2020	0
2017	0	2021	0
2018	0	1981	NA
2019	0	1982	NA
2020	0	1983	NA
2021	NA	1984	NA